

# Every symbol (most symbols) defined by unicode-math

Will Robertson

? ?

This document uses the file `unicode-math-table.tex` to print every symbol defined by the `unicode-math` package. Use this document to find the command name or the Unicode glyph slot for a symbol that you wish to use. The following fonts are shown: (with approximate symbol counts)

M **Latin Modern Math** (1585)

X **XITS Math** (2425)

S **STIX Math** (2394)

C **Cambria Math** (1588)

A **Asana Math** (2252)

P **TeX Gyre Pagella Math** (1638)

D **DejaVu Math TeX Gyre** (1640)

E **Neo Euler** (576)

Note that there are addition maths fonts in the ‘TeX Gyre’ collection which aren’t included here.

Symbols defined in Plain TeX are indicated with <sup>(p)</sup> after their macro name. L<sup>A</sup>TeX follows Plain TeX, but defines a handful more, indicated with <sup>(l)</sup> Symbols defined in amssymb are indicated with <sup>(a)</sup>.

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# 1 Opening symbols, \mathopen

USV	M	X	S	C	A	P	D	E	Macro	Description
U+00028	(	(	(	(	(	(	(	(	\lparen	left parenthesis
U+0005B	[	[	[	[	[	[	[	[	\lbrack	left square bracket
U+0007B	{	{	{	{	{	{	{	{	\lbrace <sup>(p)</sup>	left curly bracket
U+0221A	√	√	√	√	√	√	√	√	\sqrt <sup>(p)</sup>	radical
U+0221B		√ <sup>3</sup>	√ <sup>3</sup>	√ <sup>3</sup>	√ <sup>3</sup>			√ <sup>3</sup>	\cuberoot	cube root
U+0221C		√ <sup>4</sup>	√ <sup>4</sup>	√ <sup>4</sup>	√ <sup>4</sup>			√ <sup>4</sup>	\fourthroot	fourth root
U+02308	⌈	⌈	⌈	⌈	⌈	⌈	⌈	⌈	\lceil <sup>(p)</sup>	left ceiling
U+0230A	⌊	⌊	⌊	⌊	⌊	⌊	⌊	⌊	\lfloor <sup>(p)</sup>	left floor
U+0231C	⌵	⌵	⌵		⌵	⌵	⌵		\ulcorner	upper left corner
U+0231E	⌴	⌴	⌴		⌴	⌴	⌴		\llcorner	lower left corner
U+023B0		⌸		⌸					\lmoustache <sup>(p)</sup>	upper left or lower right curly bracket section
U+02772		⌷	⌷						\lbrbrak	light left tortoise shell bracket ornament
U+027C5		⌶	⌶		⌶				\lbag	left s-shaped bag delimiter
U+027CC		⌷	⌷						\longdivision	long division
U+027E6	⌈	⌈	⌈	⌈	⌈	⌈	⌈	⌈	\lBrack	mathematical left white square bracket
U+027E8	⌈	⌈	⌈	⌈	⌈	⌈	⌈	⌈	\langle <sup>(p)</sup>	mathematical left angle bracket
U+027EA	⌈	⌈	⌈	⌈	⌈	⌈	⌈	⌈	\lAngle	mathematical left double angle bracket
U+027EC		⌷	⌷		⌷				\Lbrbrak	mathematical left white tortoise shell bracket
U+027EE	(	(	(		(	(	(		\lgroup <sup>(p)</sup>	mathematical left flattened parenthesis
U+02983		⌸	⌸		⌸				\lBrace	left white curly bracket
U+02985		(	(		(				\lParen	left white parenthesis
U+02987		⌷	⌷		⌷				\llparenthesis	z notation left image bracket
U+02989		⌷	⌷		⌷				\llangle	z notation left binding bracket

USV	M	X	S	C	A	P	D	E	Macro	Description
U+0298B		⌈	⌊		⌋				\lbrackubar	left square bracket with underbar
U+0298D		⌈̣	⌊̣		⌋̣				\lbrackultick	left square bracket with tick in top corner
U+0298F		⌈̵	⌊̵		⌋̵				\lbracklltick	left square bracket with tick in bottom corner
U+02991		⌵	⌴		⌶				\langedot	left angle bracket with dot
U+02993		⌷	⌶		⌸				\lparenless	left arc less-than bracket
U+02995		⌸	⌷		⌹				\Lparenltr	double left arc greater-than bracket
U+02997		⌹	⌸		⌺				\lblrbrak	left black tortoise shell bracket
U+029D8		⌿	⌿		⌿				\lvzigzag	left wiggly fence
U+029DA		⌿̣	⌿̣		⌿̣				\Lvzigzag	left double wiggly fence
U+029FC		⌵	⌴	⌵	⌴				\lcurvyangle	left pointing curved angle bracket

## 2 Closing symbols, \mathclose

USV	M	X	S	C	A	P	D	E	Macro	Description
U+00021	!	!	!	!	!	!	!	!	\mathexclam	exclamation mark
U+00029	)	)	)	)	)	)	)	)	\rparen	right parenthesis
U+0005D	]	]	]	]	]	]	]	]	\rbrack	right square bracket
U+0007D	}	}	}	}	}	}	}	}	\rbrace <sup>(p)</sup>	right curly bracket
U+02309	⌋	⌋	⌋	⌋	⌋	⌋	⌋	⌋	\rceil <sup>(p)</sup>	right ceiling
U+0230B	⌋	⌋	⌋	⌋	⌋	⌋	⌋	⌋	\rfloor <sup>(p)</sup>	right floor
U+0231D	⌋	⌋	⌋		⌋	⌋	⌋		\urcorner	upper right corner
U+0231F	⌋	⌋	⌋		⌋	⌋	⌋		\lrcorner	lower right corner
U+023B1		⌋		⌋					\rmoustache <sup>(p)</sup>	upper right or lower left curly bracket section
U+02773		⌋	⌋						\rbrbrak	light right tortoise shell bracket ornament
U+027C6		⌋	⌋		⌋				\rbag	right s-shaped bag delimiter
U+027E7	⌋	⌋	⌋	⌋	⌋	⌋	⌋		\rBrack	mathematical right white square bracket
U+027E9	⌋	⌋	⌋	⌋	⌋	⌋	⌋	⌋	\rangle <sup>(p)</sup>	mathematical right angle bracket
U+027EB	⌋	⌋	⌋	⌋	⌋	⌋	⌋	⌋	\rAngle	mathematical right double angle bracket
U+027ED		⌋	⌋		⌋				\Rbrbrak	mathematical right white tortoise shell bracket
U+027EF	)	)	)		)	)	)		\rgroup <sup>(p)</sup>	mathematical right flattened parenthesis
U+02984		⌋	⌋		⌋				\rBrace	right white curly bracket
U+02986		⌋	⌋		⌋				\rParen	right white parenthesis
U+02988		⌋	⌋		⌋				\rrparenthesis	z notation right image bracket
U+0298A		⌋	⌋		⌋				\rrangle	z notation right binding bracket
U+0298C		⌋	⌋		⌋				\rbrackubar	right square bracket with underbar
U+0298E		⌋	⌋		⌋				\rbracklrtick	right square bracket with tick in bottom corner
U+02990		⌋	⌋		⌋				\rbrackurtick	right square bracket with tick in top corner

USV	M	X	S	C	A	P	D	E	Macro	Description
U+02992		➤	➤		➤				\rangledot	right angle bracket with dot
U+02994		➤	➤		➤				\rparengtr	right arc greater-than bracket
U+02996		➤	➤		➤				\Rparenless	double right arc less-than bracket
U+02998		➤	➤		➤				\rblkrbrak	right black tortoise shell bracket
U+029D9		⋈	⋈		⋈				\rvzigzag	right wiggly fence
U+029DB		⋈	⋈		⋈				\Rvzigzag	right double wiggly fence
U+029FD		➤	➤	➤	➤				\rcurvyangle	right pointing curved angle bracket

### 3 Fence symbols, `\mathfence`

USV	M	X	S	C	A	P	D	E	Macro	Description
U+0007C									<code>\vert<sup>(p)</sup></code>	vertical bar
U+02016									<code>\Vert<sup>(p)</sup></code>	double vertical bar
U+02980									<code>\Vvert</code>	triple vertical bar delimiter

### 4 Punctuation symbols, `\mathpunct`

















USV	M	X	S	C	A	P	D	E	Macro	Description
U+0002C	,	,	,	,	,	,	,	,	<code>\mathcomma</code>	comma
U+0003A	:	:	:	:	:	:	:	:	<code>\mathcolon</code>	colon
U+0003B	;	;	;	;	;	;	;	;	<code>\mathsemicolon</code>	semicolon p:

### 5 ‘Over’ symbols, `\mathover`

USV	M	X	S	C	A	P	D	E	Macro	Description
U+023B4	$\overline{x+y}$	$\overline{x+y}$	$\overline{x+y}$	$\overline{x+y}$	$\overline{x+y}$	$\overline{x+y}$	$\overline{x+y}$		<code>\overbracket</code>	top square bracket
U+023DC	$\overparen{x+y}$	$\overparen{x+y}$	$\overparen{x+y}$	$\overparen{x+y}$	$\overparen{x+y}$	$\overparen{x+y}$	$\overparen{x+y}$	$\overparen{\square+\square}$	<code>\overparen</code>	top parenthesis (mathematical use)
U+023DE	$\overbrace{x+y}$	$\overbrace{x+y}$	$\overbrace{x+y}$	$\overbrace{x+y}$	$\overbrace{x+y}$	$\overbrace{x+y}$	$\overbrace{x+y}$	$\overbrace{\square+\square}$	<code>\overbrace<sup>(p)</sup></code>	top curly bracket (mathematical use)

### 6 ‘Under’ symbols, `\mathunder`

USV	M	X	S	C	A	P	D	E	Macro	Description
U+023B5	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$		<code>\underbracket</code>	bottom square bracket

usv	M	X	S	C	A	P	D	E	Macro	Description
U+023DD									<code>\underparen</code>	bottom parenthesis (mathematical use)
U+023DF									<code>\underbrace<sup>(p)</sup></code>	bottom curly bracket (mathematical use)



## 7 Accents, \mathaccent

Note that accents will only be properly placed if used with an OpenType font with the necessary information.

USV	M	X	S	C	A	P	D	E	Macro	Description
U+00300	$\grave{x}$	$\grave{x}$	$\grave{x}$	$\grave{x}$	$\grave{x}$	$\grave{x}$	$\grave{x}$	$\grave{x}$	<code>\grave{grave}^{(p)}</code>	grave accent
U+00301	$\acute{x}$	$\acute{x}$	$\acute{x}$	$\acute{x}$	$\acute{x}$	$\acute{x}$	$\acute{x}$	$\acute{x}$	<code>\acute{acute}^{(p)}</code>	acute accent
U+00302	$\hat{x}$	$\hat{x}$	$\hat{x}$	$\hat{x}$	$\hat{x}$	$\hat{x}$	$\hat{x}$	$\hat{x}$	<code>\hat{hat}^{(p)}</code>	circumflex accent
U+00303	$\tilde{x}$	$\tilde{x}$	$\tilde{x}$	$\tilde{x}$	$\tilde{x}$	$\tilde{x}$	$\tilde{x}$	$\tilde{x}$	<code>\tilde{tilde}^{(p)}</code>	tilde
U+00304	$\bar{x}$	$\bar{x}$	$\bar{x}$	$\bar{x}$	$\bar{x}$	$\bar{x}$	$\bar{x}$	$\bar{x}$	<code>\bar{bar}^{(p)}</code>	macron
U+00305	$\overline{x}$	$\overline{x}$	$\overline{x}$	$\overline{x}$	$\overline{x}$	$\overline{x}$	$\overline{x}$	$\overline{x}$	<code>\overbar</code>	overbar embellishment
U+00306	$\breve{x}$	$\breve{x}$	$\breve{x}$	$\breve{x}$	$\breve{x}$	$\breve{x}$	$\breve{x}$	$\breve{x}$	<code>\breve^{(p)}</code>	breve
U+00307	$\dot{x}$	$\dot{x}$	$\dot{x}$	$\dot{x}$	$\dot{x}$	$\dot{x}$	$\dot{x}$	$\dot{x}$	<code>\dot{dot}^{(p)}</code>	dot above
U+00308	$\ddot{x}$	$\ddot{x}$	$\ddot{x}$	$\ddot{x}$	$\ddot{x}$	$\ddot{x}$	$\ddot{x}$	$\ddot{x}$	<code>\ddot{ddot}^{(p)}</code>	dieresis
U+00309	$\mathring{x}$	$\mathring{x}$	$\mathring{x}$	$\mathring{x}$		$\mathring{x}$	$\mathring{x}$		<code>\mathring{ovhook}</code>	combining hook above
U+0030A	$\mathring{x}$	$\mathring{x}$	$\mathring{x}$	$\mathring{x}$	$\mathring{x}$	$\mathring{x}$	$\mathring{x}$	$\mathring{x}$	<code>\mathring{ocirc}</code>	ring
U+0030C	$\check{x}$	$\check{x}$	$\check{x}$	$\check{x}$	$\check{x}$	$\check{x}$	$\check{x}$	$\check{x}$	<code>\check{check}^{(p)}</code>	caron
U+00310		$\mathring{x}$	$\mathring{x}$	$\mathring{x}$					<code>\candra</code>	candrabindu (non-spacing)
U+00312		$\mathring{x}$	$\mathring{x}$	$\mathring{x}$					<code>\oturnedcomma</code>	combining turned comma above
U+00315		$\mathring{x}$	$\mathring{x}$	$\mathring{x}$					<code>\ocommatopright</code>	combining comma above right
U+0031A		$\mathring{x}$	$\mathring{x}$	$\mathring{x}$					<code>\droang</code>	left angle above (non-spacing)
U+020D0	$\overleftarrow{x}$	$\overleftarrow{x}$	$\overleftarrow{x}$	$\overleftarrow{x}$	$\overleftarrow{x}$	$\overleftarrow{x}$	$\overleftarrow{x}$		<code>\leftharpoonaccent</code>	combining left harpoon above
U+020D1	$\overrightarrow{x}$	$\overrightarrow{x}$	$\overrightarrow{x}$	$\overrightarrow{x}$	$\overrightarrow{x}$	$\overrightarrow{x}$	$\overrightarrow{x}$		<code>\rightharpoonaccent</code>	combining right harpoon above
U+020D2	$\overline{\overline{x}}$	$\overline{\overline{x}}$	$\overline{\overline{x}}$	$\overline{\overline{x}}$	$\overline{\overline{x}}$	$\overline{\overline{x}}$	$\overline{\overline{x}}$		<code>\vertoverlay</code>	combining long vertical line overlay
U+020D7	$\overrightarrow{x}$	$\overrightarrow{x}$	$\overrightarrow{x}$	$\overrightarrow{x}$	$\overrightarrow{x}$	$\overrightarrow{x}$	$\overrightarrow{x}$	$\overrightarrow{x}$	<code>\vec^{(p)}</code>	combining right arrow above
U+020DB	$\overdot{\overdot{x}}$	$\overdot{\overdot{x}}$	$\overdot{\overdot{x}}$	$\overdot{\overdot{x}}$	$\overdot{\overdot{x}}$	$\overdot{\overdot{x}}$	$\overdot{\overdot{x}}$	$\overdot{\overdot{x}}$	<code>\dddots</code>	combining three dots above
U+020DC	$\overdot{\overdot{\overdot{x}}}$	$\overdot{\overdot{\overdot{x}}}$	$\overdot{\overdot{\overdot{x}}}$	$\overdot{\overdot{\overdot{x}}}$	$\overdot{\overdot{\overdot{x}}}$	$\overdot{\overdot{\overdot{x}}}$	$\overdot{\overdot{\overdot{x}}}$	$\overdot{\overdot{\overdot{x}}}$	<code>\ddddots</code>	combining four dots above

USV	M	X	S	C	A	P	D	E	Macro	Description
U+020E7		$\overline{x}$	$\overline{x}$		$\overline{x}$				<code>\annuity</code>	combining annuity symbol
U+020E9	$\overline{x}$	$\overline{x}$	$\overline{x}$	$\overline{x}$	$\overline{x}$	$\overline{x}$	$\overline{x}$		<code>\widebridgeabove</code>	combining wide bridge above
U+020F0	$\overset{*}{x}$	$\overset{*}{x}$	$\overset{*}{x}$			$\overset{*}{x}$	$\overset{*}{x}$		<code>\asteraccent</code>	combining asterisk above

















































































## 8 Bottom accents, `\mathbotaccent`
































































USV	M	X	S	C	A	P	D	E	Macro	Description
U+020E8	$\underset{...}{x}$	$\underset{...}{x}$	$\underset{...}{x}$	$\underset{...}{x}$	$\underset{...}{x}$	$\underset{...}{x}$	$\underset{...}{x}$		<code>\threeunderdot</code>	combining triple underdot





## 9 Big operators, \mathop















Of the operators shown below, a subset need to be flagged by unicode-math for \nolimits adjustments. The limits behaviour as specified by unicode-math are shown with grey subscripts and superscripts.




usv	M	X	S	C	A	P	D	E	Macro	Description
U+02140	$\sum_0^1$	$\sum_0^1$	$\sum_0^1$	$\sum_0^1$	$\sum_0^1$	$\sum_0^1$	$\sum_0^1$		\Bbbsum	double-struck n-ary summation
U+0220F	$\prod_0^1$	$\prod_0^1$	$\prod_0^1$	$\prod_0^1$	$\prod_0^1$	$\prod_0^1$	$\prod_0^1$	$\prod_0^1$	\prod^{(p)}	product operator
U+02210	$\coprod_0^1$	$\coprod_0^1$	$\coprod_0^1$	$\coprod_0^1$	$\coprod_0^1$	$\coprod_0^1$	$\coprod_0^1$	$\coprod_0^1$	\coprod^{(p)}	coproduct operator
U+02211	$\sum_0^1$	$\sum_0^1$	$\sum_0^1$	$\sum_0^1$	$\sum_0^1$	$\sum_0^1$	$\sum_0^1$	$\sum_0^1$	\sum^{(p)}	summation operator
U+0222B	$\int_0^1$	$\int_0^1$	$\int_0^1$	$\int_0^1$	$\int_0^1$	$\int_0^1$	$\int_0^1$	$\int_0^1$	\int^{(p)}	integral operator
U+0222C	$\iint_0^1$	$\iint_0^1$	$\iint_0^1$	$\iint_0^1$	$\iint_0^1$	$\iint_0^1$	$\iint_0^1$	$\iint_0^1$	\iint	double integral operator
U+0222D	$\iiint_0^1$	$\iiint_0^1$	$\iiint_0^1$	$\iiint_0^1$	$\iiint_0^1$	$\iiint_0^1$	$\iiint_0^1$	$\iiint_0^1$	\iiint	triple integral operator
U+0222E	$\oint_0^1$	$\oint_0^1$	$\oint_0^1$	$\oint_0^1$	$\oint_0^1$	$\oint_0^1$	$\oint_0^1$	$\oint_0^1$	\oint^{(p)}	contour integral operator
U+0222F	$\oiint_0^1$	$\oiint_0^1$	$\oiint_0^1$	$\oiint_0^1$	$\oiint_0^1$	$\oiint_0^1$	$\oiint_0^1$		\oiint	double contour integral operator
U+02230	$\oiiint_0^1$	$\oiiint_0^1$	$\oiiint_0^1$	$\oiiint_0^1$	$\oiiint_0^1$	$\oiiint_0^1$	$\oiiint_0^1$		\oiiint	triple contour integral operator
U+02231	$\int_0^1$	$\int_0^1$	$\int_0^1$	$\int_0^1$	$\int_0^1$	$\int_0^1$	$\int_0^1$		\intclockwise	clockwise integral

usv	M	X	S	C	A	P	D	E	Macro	Description
U+02232									<code>\varointclockwise</code>	contour integral, clockwise
U+02233									<code>\ointctrclockwise</code>	contour integral, anticlockwise
U+022C0									<code>\bigwedge^{(p)}</code>	logical and operator
U+022C1									<code>\bigvee^{(p)}</code>	logical or operator
U+022C2									<code>\bigcap^{(p)}</code>	intersection operator
U+022C3									<code>\bigcup^{(p)}</code>	union operator
U+027D5									<code>\leftouterjoin</code>	left outer join
U+027D6									<code>\rightouterjoin</code>	right outer join
U+027D7									<code>\fullouterjoin</code>	full outer join
U+027D8									<code>\bigbot</code>	large up tack
U+027D9									<code>\bigtop</code>	large down tack
U+029F8									<code>\xso1</code>	big solidus
U+029F9									<code>\xbsol</code>	big reverse solidus
U+02A00									<code>\bigodot^{(p)}</code>	n-ary circled dot operator





























































































USV	M	X	S	C	A	P	D	E	Macro	Description
U+02A01									<code>\bigoplus<sup>(p)</sup></code>	n-ary circled plus operator
U+02A02									<code>\bigotimes<sup>(p)</sup></code>	n-ary circled times operator
U+02A03									<code>\bigcupdot</code>	n-ary union operator with dot
U+02A04									<code>\biguplus<sup>(p)</sup></code>	n-ary union operator with plus
U+02A05									<code>\bigsqcap</code>	n-ary square intersection operator
U+02A06									<code>\bigsqcup<sup>(p)</sup></code>	n-ary square union operator
U+02A07									<code>\conjquant</code>	two logical and operator
U+02A08									<code>\disjquant</code>	two logical or operator
U+02A09									<code>\bigtimes</code>	n-ary times operator
U+02A0A									<code>\modtwosum</code>	modulo two sum
U+02A0B									<code>\sumint</code>	summation with integral

USV	M	X	S	C	A	P	D	E	Macro	Description
U+02A0C									<code>\iiint</code>	quadruple integral operator
U+02A0D									<code>\intbar</code>	finite part integral
U+02A0E									<code>\intBar</code>	integral with double stroke
U+02A0F									<code>\fint</code>	integral average with slash
U+02A10									<code>\cirfnint</code>	circulation function
U+02A11									<code>\awint</code>	anticlockwise integration
U+02A12									<code>\rppointint</code>	line integration with rectangular path around pole
U+02A13									<code>\scpointint</code>	line integration with semicircular path around pole
U+02A14									<code>\npointint</code>	line integration not including the pole
U+02A15									<code>\pointint</code>	integral around a point operator
U+02A16									<code>\sqint</code>	quaternion integral operator

USV	M	X	S	C	A	P	D	E	Macro	Description
U+02A17									<code>\intlarhk</code>	integral with leftwards arrow with hook
U+02A18									<code>\intx</code>	integral with times sign
U+02A19									<code>\intcap</code>	integral with intersection
U+02A1A									<code>\intcup</code>	integral with union
U+02A1B									<code>\upint</code>	integral with overbar
U+02A1C									<code>\lowint</code>	integral with underbar
U+02A1D									<code>\Join</code>	join
U+02A1E									<code>\bigtriangleleft</code>	large left triangle operator
U+02A1F									<code>\zcmp</code>	z notation schema composition
U+02A20									<code>\zpipe</code>	z notation schema piping
U+02A21									<code>\zproject</code>	z notation schema projection
U+02AFC									<code>\biginterleave</code>	large triple vertical bar operator




































































































































































USV	M	X	S	C	A	P	D	E	Macro	Description
U+02AFF									<code>\bigtalloblong</code>	n-ary white vertical bar
U+1EEF0									<code>\arabicmaj</code>	arabic mathematical operator meem with hah with tatweel
U+1EEF1									<code>\arabichad</code>	arabic mathematical operator hah with dal

## 10 Binary relations, `\mathbin`

USV	M	X	S	C	A	P	D	E	Macro	Description
U+0002B									<code>\mathplus</code>	plus sign b:
U+000B1									<code>\pm^{(p)}</code>	plus-or-minus sign
U+000B7									<code>\centerdot^{(p)}</code>	/centerdot b: middle dot
U+000D7									<code>\times^{(p)}</code>	multiply sign
U+000F7									<code>\div^{(p)}</code>	divide sign
U+02020									<code>\dagger^{(p)}</code>	dagger relation
U+02021									<code>\ddagger^{(p)}</code>	double dagger relation
U+02022									<code>\smblkcircle</code>	/bullet b: round bullet, filled
U+02040									<code>\tieconcat</code>	character tie, z notation sequence concatenation
U+02044									<code>\fracslash</code>	fraction slash
U+0214B									<code>\upand</code>	turned ampersand
U+02212									<code>\minus</code>	minus sign
U+02213									<code>\mp^{(p)}</code>	minus-or-plus sign



USV	M	X	S	C	A	P	D	E	Macro	Description
U+02214	$\dot{+}$	$\dot{+}$	$\dot{+}$	$\dot{+}$	$\dot{+}$	$\dot{+}$	$\dot{+}$		<code>\dotplus<sup>(a)</sup></code>	plus sign, dot above
U+02215	$/$	$/$	$/$	$/$	$/$	$/$	$/$	$/$	<code>\divslash</code>	division slash
U+02216	$\setminus$	$\setminus$	$\setminus$	$\setminus$	$\setminus$	$\setminus$	$\setminus$	$\setminus$	<code>\smallsetminus<sup>(a)</sup></code>	small set minus (cf. reverse solidus)
U+02217	$*$	$*$	$*$	$*$	$*$	$*$	$*$	$*$	<code>\ast<sup>(p)</sup></code>	centered asterisk
U+02218	$\circ$	$\circ$	$\circ$	$\circ$	$\circ$	$\circ$	$\circ$	$\circ$	<code>\vysmwhtcircle</code>	composite function (small circle)
U+02219	$\bullet$	$\bullet$	$\bullet$	$\bullet$	$\bullet$	$\bullet$	$\bullet$	$\bullet$	<code>\vysmbkcircle</code>	bullet operator
U+02227	$\wedge$	$\wedge$	$\wedge$	$\wedge$	$\wedge$	$\wedge$	$\wedge$	$\wedge$	<code>\wedge<sup>(p)</sup></code>	$/\wedge$ $/\land$ b: logical and
U+02228	$\vee$	$\vee$	$\vee$	$\vee$	$\vee$	$\vee$	$\vee$	$\vee$	<code>\vee<sup>(p)</sup></code>	$/\vee$ $/\lor$ b: logical or
U+02229	$\cap$	$\cap$	$\cap$	$\cap$	$\cap$	$\cap$	$\cap$	$\cap$	<code>\cap<sup>(p)</sup></code>	intersection
U+0222A	$\cup$	$\cup$	$\cup$	$\cup$	$\cup$	$\cup$	$\cup$	$\cup$	<code>\cup<sup>(p)</sup></code>	union or logical sum
U+02238	$\dot{-}$	$\dot{-}$	$\dot{-}$	$\dot{-}$	$\dot{-}$	$\dot{-}$	$\dot{-}$	$\dot{-}$	<code>\dotminus</code>	minus sign, dot above
U+0223E	$\sim$	$\sim$	$\sim$	$\sim$	$\sim$	$\sim$	$\sim$		<code>\invlazys</code>	most positive [inverted lazy s]
U+02240	$\wr$	$\wr$	$\wr$	$\wr$	$\wr$	$\wr$	$\wr$	$\wr$	<code>\wr<sup>(p)</sup></code>	wreath product
U+0228C	$\cupleftarrow$	$\cupleftarrow$	$\cupleftarrow$	$\cupleftarrow$	$\cupleftarrow$	$\cupleftarrow$	$\cupleftarrow$		<code>\cupleftarrow</code>	multiset
U+0228D	$\cup\dot{\cup}$	$\cup\dot{\cup}$	$\cup\dot{\cup}$	$\cup\dot{\cup}$	$\cup\dot{\cup}$	$\cup\dot{\cup}$	$\cup\dot{\cup}$		<code>\cupdot</code>	union, with dot
U+0228E	$\cupplus$	$\cupplus$	$\cupplus$	$\cupplus$	$\cupplus$	$\cupplus$	$\cupplus$	$\cupplus$	<code>\uplus<sup>(p)</sup></code>	plus sign in union
U+02293	$\sqcap$	$\sqcap$	$\sqcap$	$\sqcap$	$\sqcap$	$\sqcap$	$\sqcap$		<code>\sqcap<sup>(p)</sup></code>	square intersection
U+02294	$\sqcup$	$\sqcup$	$\sqcup$	$\sqcup$	$\sqcup$	$\sqcup$	$\sqcup$		<code>\sqcup<sup>(p)</sup></code>	square union
U+02295	$\oplus$	$\oplus$	$\oplus$	$\oplus$	$\oplus$	$\oplus$	$\oplus$	$\oplus$	<code>\oplus<sup>(p)</sup></code>	plus sign in circle
U+02296	$\ominus$	$\ominus$	$\ominus$	$\ominus$	$\ominus$	$\ominus$	$\ominus$	$\ominus$	<code>\ominus<sup>(p)</sup></code>	minus sign in circle
U+02297	$\otimes$	$\otimes$	$\otimes$	$\otimes$	$\otimes$	$\otimes$	$\otimes$	$\otimes$	<code>\otimes<sup>(p)</sup></code>	multiply sign in circle
U+02298	$\oslash$	$\oslash$	$\oslash$	$\oslash$	$\oslash$	$\oslash$	$\oslash$	$\oslash$	<code>\oslash<sup>(p)</sup></code>	solidus in circle
U+02299	$\odot$	$\odot$	$\odot$	$\odot$	$\odot$	$\odot$	$\odot$	$\odot$	<code>\odot<sup>(p)</sup></code>	middle dot in circle
U+0229A	$\circledcirc$	$\circledcirc$	$\circledcirc$	$\circledcirc$	$\circledcirc$	$\circledcirc$	$\circledcirc$		<code>\circledcirc<sup>(a)</sup></code>	small circle in circle

USV	M	X	S	C	A	P	D	E	Macro	Description
U+0229B									<code>\circledast<sup>(a)</sup></code>	asterisk in circle
U+0229C									<code>\circledequal</code>	equal in circle
U+0229D									<code>\circleddash<sup>(a)</sup></code>	hyphen in circle
U+0229E									<code>\boxplus<sup>(a)</sup></code>	plus sign in box
U+0229F									<code>\boxminus<sup>(a)</sup></code>	minus sign in box
U+022A0									<code>\boxtimes<sup>(a)</sup></code>	multiply sign in box
U+022A1									<code>\boxdot<sup>(a)</sup></code>	/dotsquare /boxdot b: small dot in box
U+022BA									<code>\intercal<sup>(a)</sup></code>	intercal
U+022BB									<code>\veebar<sup>(a)</sup></code>	logical or, bar below (large vee); exclusive disjunction
U+022BC									<code>\barwedge<sup>(a)</sup></code>	bar, wedge (large wedge)
U+022BD									<code>\barvee</code>	bar, vee (large vee)
U+022C4									<code>\smwhtdiamond</code>	white diamond
U+022C5									<code>\cdot<sup>(p)</sup></code>	small middle dot
U+022C6									<code>\star<sup>(p)</sup></code>	small star, filled, low
U+022C7									<code>\divideontimes<sup>(a)</sup></code>	division on times
U+022C9									<code>\ltimes<sup>(a)</sup></code>	times sign, left closed
U+022CA									<code>\rtimes<sup>(a)</sup></code>	times sign, right closed
U+022CB									<code>\leftthreetimes<sup>(a)</sup></code>	left semidirect product
U+022CC									<code>\rightthreetimes<sup>(a)</sup></code>	right semidirect product
U+022CE									<code>\curlyvee<sup>(a)</sup></code>	curly logical or
U+022CF									<code>\curlywedge<sup>(a)</sup></code>	curly logical and
U+022D2									<code>\Cap<sup>(a)</sup></code>	/cap /doublecap b: double intersection
U+022D3									<code>\Cup<sup>(a)</sup></code>	/cup /doublecup b: double union

usv	M	X	S	C	A	P	D	E	Macro	Description
U+02305									<code>\varbarwedge</code>	/barwedge b: logical and, bar above [projective (bar over small wedge)]
U+02306									<code>\vardoublebarwedge</code>	/doublebarwedge b: logical and, double bar above [perspective (double bar over small wedge)]
U+0233D									<code>\obar</code>	circle with vertical bar
U+025B3									<code>\bigtriangleup<sup>(p)</sup></code>	big up triangle, open
U+025B7									<code>\triangleright<sup>(p)</sup></code>	(large) right triangle, open; z notation range restriction
U+025C1									<code>\triangleleft<sup>(p)</sup></code>	(large) left triangle, open; z notation domain restriction
U+025CB									<code>\mdlgwhtcircle</code>	medium large circle
U+025EB									<code>\boxbar</code>	vertical bar in box
U+027C7									<code>\veedot</code>	or with dot inside
U+027D1									<code>\wedgedot</code>	and with dot
U+027E0									<code>\lozengeminus</code>	lozenge divided by horizontal rule
U+027E1									<code>\concavediamond</code>	white concave-sided diamond
U+027E2									<code>\concavediamondtickleft</code>	white concave-sided diamond with leftwards tick
U+027E3									<code>\concavediamondtickright</code>	white concave-sided diamond with rightwards tick
U+027E4									<code>\whitesquaretickleft</code>	white square with leftwards tick
U+027E5									<code>\whitesquaretickright</code>	white square with rightwards tick
U+029B5									<code>\circlehbar</code>	circle with horizontal bar
U+029B6									<code>\circledvert</code>	circled vertical bar
U+029B7									<code>\circledparallel</code>	circled parallel
U+029B8									<code>\obslash</code>	circled reverse solidus
U+029B9									<code>\operp</code>	circled perpendicular
U+029C0									<code>\olessthan</code>	circled less-than

USV	M	X	S	C	A	P	D	E	Macro	Description
U+029C1		⊙	⊗		⊕				<code>\ogreaterthan</code>	circled greater-than
U+029C4		⊠	⊡		⊢				<code>\boxdiag</code>	squared rising diagonal slash
U+029C5		⊞	⊟		⊣				<code>\boxbslash</code>	squared falling diagonal slash
U+029C6		⊠	⊡		⊢				<code>\boxast</code>	squared asterisk
U+029C7		⊠	⊡		⊢				<code>\boxcircle</code>	squared small circle
U+029C8		⊠	⊡		⊢				<code>\boxbox</code>	squared square
U+029CD		△	△		△				<code>\triangleserifs</code>	triangle with serifs at bottom
U+029D6		⌚	⌚		⌚				<code>\hourglass</code>	white hourglass
U+029D7		⌚	⌚		⌚				<code>\blackhourglass</code>	black hourglass
U+029E2		⌞	⌞		⌞				<code>\shuffle</code>	shuffle product
U+029EB		◆	◆		◆				<code>\mdlgblklozenge</code>	black lozenge
U+029F5		↵	↵		↵				<code>\setminus<sup>(p)</sup></code>	reverse solidus operator
U+029F6		↯	↯		↯				<code>\dsol</code>	solidus with overbar
U+029F7		↯	↯		↯				<code>\rsolbar</code>	reverse solidus with horizontal stroke
U+029FA		⦶	⦶		⦶				<code>\doubleplus</code>	double plus
U+029FB		⦶	⦶		⦶				<code>\tripleplus</code>	triple plus
U+029FE		⦶	⦶		⦶				<code>\tplus</code>	tiny
U+029FF		⦶	⦶		⦶				<code>\tminus</code>	miny
U+02A22		⦶	⦶		⦶				<code>\ringplus</code>	plus sign with small circle above
U+02A23		⦶	⦶		⦶				<code>\plushat</code>	plus sign with circumflex accent above
U+02A24		⦶	⦶		⦶				<code>\simplus</code>	plus sign with tilde above
U+02A25		⦶	⦶		⦶				<code>\plusdot</code>	plus sign with dot below
U+02A26		⦶	⦶		⦶				<code>\plussim</code>	plus sign with tilde below
U+02A27		⦶	⦶		⦶				<code>\plussubtwo</code>	plus sign with subscript two

USV	M	X	S	C	A	P	D	E	Macro	Description
U+02A28		+	+		+				\plustrif	plus sign with black triangle
U+02A29		÷	÷		÷				\commaminus	minus sign with comma above
U+02A2A		⋈	⋈		⋈				\minusdot	minus sign with dot below
U+02A2B		⋈	⋈		⋈				\minusfdots	minus sign with falling dots
U+02A2C		⋈	⋈		⋈				\minusrdots	minus sign with rising dots
U+02A2D		⊕	⊕		⊕				\oplushrim	plus sign in left half circle
U+02A2E		⊕	⊕		⊕				\oplusrhrim	plus sign in right half circle
U+02A2F	×	×	×		×	×	×		\vectimes	vector or cross product
U+02A30		×	×		×				\dottimes	multiplication sign with dot above
U+02A31		×	×		×				\timesbar	multiplication sign with underbar
U+02A32		×	×		×				\btimes	semidirect product with bottom closed
U+02A33		⌘	⌘		⌘				\smashtimes	smash product
U+02A34		⊗	⊗		⊗				\otimeslhrim	multiplication sign in left half circle
U+02A35		⊗	⊗		⊗				\otimesrhrim	multiplication sign in right half circle
U+02A36		⊗	⊗		⊗				\otimeshat	circled multiplication sign with circumflex accent
U+02A37		⊗	⊗		⊗				\Otimes	multiplication sign in double circle
U+02A38		⊕	⊕		⊕				\odiv	circled division sign
U+02A39		△	△		△				\triangleplus	plus sign in triangle
U+02A3A		△	△		△				\triangleminus	minus sign in triangle
U+02A3B		△	△		△				\triangletimes	multiplication sign in triangle
U+02A3C		┐	┐		┐				\intprod	interior product
U+02A3D		┐	┐		┐				\intprodr	righthand interior product
U+02A3E		⋈	⋈		⋈				\fcmp	z notation relational composition

USV	M	X	S	C	A	P	D	E	Macro	Description
U+02A3F	Ⅱ	Ⅱ	Ⅱ		Ⅱ	Ⅱ	Ⅱ		<code>\amalg<sup>(p)</sup></code>	amalgamation or coproduct
U+02A40		⋈	⋈		⋈				<code>\capdot</code>	intersection with dot
U+02A41		⋈	⋈		⋈				<code>\uminus</code>	union with minus sign
U+02A42		⋈	⋈		⋈				<code>\barcup</code>	union with overbar
U+02A43		⋈	⋈		⋈				<code>\barcap</code>	intersection with overbar
U+02A44		⋈	⋈		⋈				<code>\capwedge</code>	intersection with logical and
U+02A45		⋈	⋈		⋈				<code>\cupvee</code>	union with logical or
U+02A46		⋈	⋈		⋈				<code>\cupovercap</code>	union above intersection
U+02A47		⋈	⋈		⋈				<code>\capovercup</code>	intersection above union
U+02A48		⋈	⋈		⋈				<code>\cupbarcap</code>	union above bar above intersection
U+02A49		⋈	⋈		⋈				<code>\capbarcup</code>	intersection above bar above union
U+02A4A		⋈	⋈		⋈				<code>\twocups</code>	union beside and joined with union
U+02A4B		⋈	⋈		⋈				<code>\twocaps</code>	intersection beside and joined with intersection
U+02A4C		⋈	⋈		⋈				<code>\closedvarcup</code>	closed union with serifs
U+02A4D		⋈	⋈		⋈				<code>\closedvarcap</code>	closed intersection with serifs
U+02A4E		⋈	⋈		⋈				<code>\Sqcap</code>	double square intersection
U+02A4F		⋈	⋈		⋈				<code>\Sqcup</code>	double square union
U+02A50		⋈	⋈		⋈				<code>\closedvarcupsmashprod</code>	closed union with serifs and smash product
U+02A51		⋈	⋈		⋈				<code>\wedgeodot</code>	logical and with dot above
U+02A52		⋈	⋈		⋈				<code>\veeodot</code>	logical or with dot above
U+02A53		⋈	⋈		⋈				<code>\Wedge</code>	double logical and
U+02A54		⋈	⋈		⋈				<code>\Vee</code>	double logical or
U+02A55		⋈	⋈		⋈				<code>\wedgeonwedge</code>	two intersecting logical and
U+02A56		⋈	⋈		⋈				<code>\veeonvee</code>	two intersecting logical or

USV	M	X	S	C	A	P	D	E	Macro	Description
U+02A57		✓	✓		✓				<code>\bigslantedvee</code>	sloping large or
U+02A58		⧵	⧵		⧵				<code>\bigslantedwedge</code>	sloping large and
U+02A5A		⧻	⧻		⧻				<code>\wedgemidvert</code>	logical and with middle stem
U+02A5B		⧼	⧼		⧼				<code>\veemidvert</code>	logical or with middle stem
U+02A5C		⧽	⧽		⧽				<code>\midbarwedge</code>	logical and with horizontal dash
U+02A5D		⧿	⧿		⧿				<code>\midbarvee</code>	logical or with horizontal dash
U+02A5E		⧿̄	⧿̄		⧿̄				<code>\doublebarwedge</code> <sup>(a)</sup>	logical and with double overbar
U+02A5F		⧿̅	⧿̅		⧿̅				<code>\wedgebar</code>	logical and with underbar
U+02A60		⧿̅̅	⧿̅̅		⧿̅̅				<code>\wedgedoublebar</code>	logical and with double underbar
U+02A61		⧻̅	⧻̅		⧻̅				<code>\varveebar</code>	small vee with underbar
U+02A62		⧻̅̅	⧻̅̅		⧻̅̅				<code>\doublebarvee</code>	logical or with double overbar
U+02A63		⧻̅̅̅	⧻̅̅̅		⧻̅̅̅				<code>\veedoublebar</code>	logical or with double underbar
U+02A64		⧻̸	⧻̸		⧻̸				<code>\dsup</code>	z notation domain antirestriction
U+02A65		⧻̹	⧻̹		⧻̹				<code>\rsub</code>	z notation range antirestriction
U+02A71		⧻̸̅	⧻̸̅		⧻̸̅				<code>\eqqplus</code>	equals sign above plus sign
U+02A72		⧻̸̅̅	⧻̸̅̅		⧻̸̅̅				<code>\pluseqq</code>	plus sign above equals sign
U+02AF4		≡	≡		≡				<code>\interleave</code>	triple vertical bar binary relation
U+02AF5		≡̅	≡̅		≡̅				<code>\nhVvert</code>	triple vertical bar with horizontal stroke
U+02AF6		⋮	⋮		⋮				<code>\threedotcolon</code>	triple colon operator
U+02AFB		≡≡	≡≡		≡≡				<code>\trslash</code>	triple solidus binary relation
U+02AFD		≡≡	≡≡		≡≡				<code>\sslash</code>	double solidus operator
U+02AFE		⏏	⏏		⏏				<code>\talloblong</code>	white vertical bar





























































































































## 11 Ordinary symbols, `\mathord`

USV	M	X	S	C	A	P	D	E	Macro	Description
U+00023	#	#	#	#	#	#	#	#	<code>\mathoctothorpe</code>	number sign
U+00024	\$	\$	\$	\$	\$	\$	\$	\$	<code>\mathdollar</code>	dollar sign
U+00025	%	%	%	%	%	%	%	%	<code>\mathpercent</code>	percent sign
U+00026	&	&	&	&	&	&	&	&	<code>\mathampersand</code>	ampersand
U+0002E	.	.	.	.	.	.	.	.	<code>\mathperiod</code>	full stop, period
U+0002F	/	/	/	/	/	/	/	/	<code>\mathslash</code>	solidus
U+0003F	?	?	?	?	?	?	?	?	<code>\mathquestion</code>	question mark
U+00040	@	@	@	@	@	@	@	@	<code>\mathatsign</code>	commercial at
U+0005C	\	\	\	\	\	\	\	\	<code>\backslash</code> <sup>(p)</sup>	reverse solidus
U+000A3	£	£	£	£	£	£	£		<code>\mathsterling</code>	pound sign
U+000A5	¥	¥	¥	¥	¥	¥	¥		<code>\mathyen</code>	yen sign
U+000A7	§	§	§	§	§	§	§	§	<code>\mathsection</code>	section symbol
U+000AC	¬	¬	¬	¬	¬	¬	¬	¬	<code>\neg</code> <sup>(p)</sup>	/neg /Inot not sign
U+000B6	¶	¶	¶	¶	¶	¶	¶		<code>\mathparagraph</code>	paragraph symbol
U+001B5		Ƶ	ƶ						<code>\Zbar</code>	impedance (latin capital letter z with stroke)
U+003F6		Ϸ	ϸ	Ϲ					<code>\upbackepsilon</code>	greek reversed lunate epsilon symbol
U+02015	—	—	—	—	—	—	—		<code>\horizbar</code>	horizontal bar
U+02017	=	=	=		=	=	=		<code>\twolowline</code>	double low line (spacing)
U+02025		⋯	⋯		⋯				<code>\enleadertwodots</code>	double baseline dot (en leader)
U+02026	⋯	⋯	⋯	⋯	⋯	⋯	⋯	⋯	<code>\unicodeellipsis</code>	ellipsis (horizontal)



usv	M	X	S	C	A	P	D	E	Macro	Description
U+02032	'	'	'	'	'	'	'	'	\prime <sup>(p)</sup>	prime or minute, not superscripted
U+02033	"	"	"	"	"	"	"	"	\dprime	double prime or second, not superscripted
U+02034	'''	'''	'''	'''	'''	'''	'''	'''	\trprime	triple prime (not superscripted)
U+02035	\	\	\		\	\	\	\	\backprime <sup>(a)</sup>	reverse prime, not superscripted
U+02036	``	``	``		``	``	``	``	\backdprime	double reverse prime, not superscripted
U+02037	'''	'''	'''		'''	'''	'''	'''	\backtrprime	triple reverse prime, not superscripted
U+02038		^	^						\caretinsert	caret (insertion mark)
U+0203C		!!	!!	!!	!!				\Exclam	double exclamation mark
U+02043		■	■						\hyphenbullet	rectangle, filled (hyphen bullet)
U+02047		??	??						\Question	double question mark
U+02057	////	////	////	////	////	////	////	////	\qprime	quadruple prime, not superscripted
U+020AC	€	€	€	€	€	€	€		\euro	euro sign
U+020DD	◯	◯	◯	◯	◯	◯	◯	◯	\enclosecircle	combining enclosing circle
U+020DE	◻	◻	◻	◻	◻	◻	◻		\enclosesquare	combining enclosing square
U+020DF	◊	◊	◊	◊	◊	◊	◊		\enclosediamond	combining enclosing diamond
U+020E4	△	△	△		△	△	△		\enclosetriangle	combining enclosing upward pointing triangle
U+02107	ℰ	ℰ	ℰ	ℰ	ℰ	ℰ	ℰ		\Eulerconst	euler constant

USV	M	X	S	C	A	P	D	E	Macro	Description
U+0210E									<code>\Planckconst</code>	planck constant
U+02127									<code>\mho</code>	conductance
U+02132									<code>\Finv<sup>(a)</sup></code>	turned capital f
U+0213C									<code>\Bbbpi</code>	double-struck small pi
U+02141									<code>\Game<sup>(a)</sup></code>	turned sans-serif capital g
U+02142									<code>\sansLturned</code>	turned sans-serif capital l
U+02143									<code>\sansLmirrored</code>	reversed sans-serif capital l
U+02144									<code>\Yup</code>	turned sans-serif capital y
U+02145									<code>\mitBbbD</code>	double-struck italic capital d
U+02146									<code>\mitBbbd</code>	double-struck italic small d
U+02147									<code>\mitBbbe</code>	double-struck italic small e
U+02148									<code>\mitBbbi</code>	double-struck italic small i
U+02149									<code>\mitBbbj</code>	double-struck italic small j
U+0214A									<code>\PropertyLine</code>	property line
U+021A8									<code>\updownarrowbar</code>	up down arrow with base (perpendicular)
U+021B4									<code>\linefeed</code>	rightwards arrow with corner downwards
U+021B5									<code>\carriagereturn</code>	downwards arrow with corner leftward = carriage return
U+021B8									<code>\barovernorthwestarrow</code>	north west arrow to long bar
U+021B9									<code>\barleftarrowrightarrowbar</code>	leftwards arrow to bar over rightwards arrow to bar







































































USV	M	X	S	C	A	P	D	E	Macro	Description
U+021BA									<code>\acwopencirclearrow</code>	anticlockwise open circle arrow
U+021BB									<code>\cwopencirclearrow</code>	clockwise open circle arrow
U+021DE									<code>\nHuparrow</code>	upwards arrow with double stroke
U+021DF									<code>\nHdownarrow</code>	downwards arrow with double stroke
U+021E0									<code>\leftdasharrow</code>	leftwards dashed arrow
U+021E1									<code>\updasharrow</code>	upwards dashed arrow
U+021E2									<code>\rightdasharrow</code>	rightwards dashed arrow
U+021E3									<code>\downdasharrow</code>	downwards dashed arrow
U+021E6									<code>\leftwhitearrow</code>	leftwards white arrow
U+021E7									<code>\upwhitearrow</code>	upwards white arrow
U+021E8									<code>\rightwhitearrow</code>	rightwards white arrow
U+021E9									<code>\downwhitearrow</code>	downwards white arrow
U+021EA									<code>\whitearrowupfrombar</code>	upwards white arrow from bar
U+02200									<code>\forall</code> <sup>(p)</sup>	for all
U+02201									<code>\complement</code> <sup>(a)</sup>	complement sign
U+02203									<code>\exists</code> <sup>(p)</sup>	at least one exists
U+02204									<code>\nexists</code> <sup>(a)</sup>	negated exists
U+02205									<code>\varnothing</code> <sup>(a)</sup>	circle, slash
U+02206									<code>\increment</code>	laplacian (delta; nabla^2)
U+0220E									<code>\QED</code>	end of proof

USV	M	X	S	C	A	P	D	E	Macro	Description
U+0221A	✓	✓	✓	✓	✓	✓	✓	✓	<code>\surd<sup>(p)</sup></code>	radical
U+0221E	∞	∞	∞	∞	∞	∞	∞	∞	<code>\infty<sup>(p)</sup></code>	infinity
U+0221F	┐	┐	┐	┐	┐	┐	┐		<code>\rightangle</code>	right (90 degree) angle
U+02220	∠	∠	∠	∠	∠	∠	∠		<code>\angle<sup>(p)</sup></code>	angle
U+02221	∠	∠	∠	∠	∠	∠	∠		<code>\measuredangle<sup>(a)</sup></code>	angle-measured
U+02222	∠	∠	∠	∠	∠	∠	∠		<code>\sphericalangle<sup>(a)</sup></code>	angle-spherical
U+02234	∴	∴	∴	∴	∴	∴	∴	∴	<code>\therefore<sup>(a)</sup></code>	therefore
U+02235	∵	∵	∵	∵	∵	∵	∵	∵	<code>\because<sup>(a)</sup></code>	because
U+0223F	〰	〰	〰	〰	〰	〰	〰		<code>\sinewave</code>	sine wave
U+022A4	⤴	⤴	⤴	⤴	⤴	⤴	⤴	⤴	<code>\top<sup>(p)</sup></code>	top
U+022A5	⤵	⤵	⤵	⤵	⤵	⤵	⤵	⤵	<code>\bot<sup>(p)</sup></code>	bottom
U+022B9	⋈	⋈	⋈	⋈	⋈	⋈	⋈		<code>\hermitmatrix</code>	hermitian conjugate matrix
U+022BE	⚡	⚡	⚡	⚡	⚡	⚡	⚡		<code>\measuredrightangle</code>	right angle-measured [with arc]
U+022BF	⚡	⚡	⚡	⚡	⚡	⚡	⚡		<code>\varltriangleright</code>	right triangle
U+022EF	⋯	⋯	⋯	⋯	⋯	⋯	⋯	⋯	<code>\unicodcdots</code>	three dots, centered
U+02300	∅	∅	∅		∅	∅	∅		<code>\diameter</code>	diameter sign
U+02302		🏠	🏠						<code>\house</code>	house
U+02310	⌞	⌞	⌞		⌞	⌞	⌞		<code>\invnot</code>	reverse not
U+02311		◻	◻						<code>\sqlozenge</code>	square lozenge
U+02312		⤿	⤿						<code>\proffline</code>	profile of a line
U+02313		⤿	⤿						<code>\profsurf</code>	profile of a surface
U+02317		⦶	⦶						<code>\viewdata</code>	viewdata square

USV	M	X	S	C	A	P	D	E	Macro	Description
U+02319									<code>\turnednot</code>	turned not sign
U+02320									<code>\inttop</code>	top half integral
U+02321									<code>\intbottom</code>	bottom half integral
U+0232C									<code>\varhexagonlrbonds</code>	six carbon ring, corner down, double bonds lower right etc
U+02332									<code>\conictaper</code>	conical taper
U+02336									<code>\topbot</code>	top and bottom
U+02340									<code>\APLnotbackslash</code>	apl functional symbol backslash bar
U+02353									<code>\APLboxupcaret</code>	boxed up caret
U+02370									<code>\APLboxquestion</code>	boxed question mark
U+0237C									<code>\rangledownzigzagarrow</code>	right angle with downwards zigzag arrow
U+02394									<code>\hexagon</code>	horizontal benzene ring [hexagon flat open]
U+0239B									<code>\lparenuend</code>	left parenthesis upper hook
U+0239C									<code>\lparenextender</code>	left parenthesis extension
U+0239D									<code>\lparenlend</code>	left parenthesis lower hook
U+0239E									<code>\rparenuend</code>	right parenthesis upper hook
U+0239F									<code>\rparenextender</code>	right parenthesis extension

USV	M	X	S	C	A	P	D	E	Macro	Description
U+023A0	)	)		)	,	)	)	)	\rparenlend	right parenthesis lower hook
U+023A1	[	[		[	[	[	[	[	\lbrackuend	left square bracket upper corner
U+023A2									\lbrackextender	left square bracket extension
U+023A3	[	[		[	[	[	[	[	\lbracklend	left square bracket lower corner
U+023A4	]	]		]	]	]	]	]	\rbrackuend	right square bracket upper corner
U+023A5									\rbrackextender	right square bracket extension
U+023A6	]	]		]	]	]	]	]	\rbracklend	right square bracket lower corner
U+023A7	{	{		{	{	{	{	{	\lbraceuend	left curly bracket upper hook
U+023A8	}	}		}	}	}	}	}	\lbracemid	left curly bracket middle piece
U+023A9	{	{		{	{	{	{	{	\lbracelend	left curly bracket lower hook
U+023AA									\vbraceextender	curly bracket extension
U+023AB	}	}		}	}	}	}	}	\rbraceuend	right curly bracket upper hook
U+023AC	}	}		}	}	}	}	}	\rbracemid	right curly bracket middle piece





































USV	M	X	S	C	A	P	D	E	Macro	Description
U+023AD									<code>\rbracelend</code>	right curly bracket lower hook
U+023AE									<code>\intextender</code>	integral extension
U+023AF									<code>\harrowextender</code>	horizontal line extension (used to extend arrows)
U+023B2									<code>\sumtop</code>	summation top
U+023B3									<code>\sumbottom</code>	summation bottom
U+023B6									<code>\bbrktbrk</code>	bottom square bracket over top square bracket
U+023B7									<code>\sqrtbottom</code>	radical symbol bottom
U+023B8									<code>\lvboxline</code>	left vertical box line
U+023B9									<code>\rvboxline</code>	right vertical box line
U+023CE									<code>\varcarriagereturn</code>	return symbol
U+023E0									<code>\obrbrak</code>	top tortoise shell bracket (mathematical use)
U+023E1									<code>\ubrbrak</code>	bottom tortoise shell bracket (mathematical use)
U+023E2									<code>\trapezium</code>	white trapezium
U+023E3									<code>\benzenr</code>	benzene ring with circle
U+023E4									<code>\strns</code>	straightness
U+023E5									<code>\fltns</code>	flatness
U+023E6									<code>\accurrent</code>	ac current













































usv	M	X	S	C	A	P	D	E	Macro	Description
U+023E7									<code>\elinters</code>	electrical inter- section
U+02422									<code>\blanksymbol</code>	blank symbol
U+02423									<code>\mathvisiblespace</code>	open box
U+02506									<code>\bdtriplevdash</code>	doubly broken vert
U+02580									<code>\blockuphalf</code>	upper half block
U+02584									<code>\blocklowhalf</code>	lower half block
U+02588									<code>\blockfull</code>	full block
U+0258C									<code>\blocklefthalf</code>	left half block
U+02590									<code>\blockrighthalf</code>	right half block
U+02591									<code>\blockqtrshaded</code>	25% shaded block
U+02592									<code>\blockhalfshaded</code>	50% shaded block
U+02593									<code>\blockthreeqtrshaded</code>	75% shaded block
U+025A0									<code>\mdlgblksquare</code>	square, filled
U+025A1									<code>\mdlgwhtsquare</code>	square, open
U+025A2									<code>\squoval</code>	white square with rounded corners
U+025A3									<code>\blackinwhitesquare</code>	white square containing black small square
U+025A4									<code>\squarehfill</code>	square, horizon- tal rule filled
U+025A5									<code>\squarevfill</code>	square, vertical rule filled
U+025A6									<code>\squarehvfill</code>	square with orthogonal crosshatch fill
U+025A7									<code>\squarenwsefill</code>	square, nw-to-se rule filled



USV	M	X	S	C	A	P	D	E	Macro	Description
U+025A8									<code>\squareneswfill</code>	square, ne-to-sw rule filled
U+025A9									<code>\squarecrossfill</code>	square with diagonal crosshatch fill
U+025AA									<code>\smbksquare</code>	/blacksquare - sq bullet, filled
U+025AB									<code>\smwhtsquare</code>	white small square
U+025AC									<code>\hrectangleblack</code>	black rectangle
U+025AD									<code>\hrectangle</code>	horizontal rectangle, open
U+025AE									<code>\vrectangleblack</code>	black vertical rectangle
U+025AF									<code>\vrectangle</code>	rectangle, white (vertical)
U+025B0									<code>\parallelogramblack</code>	black parallelogram
U+025B1									<code>\parallelogram</code>	parallelogram, open
U+025B2									<code>\bigblacktriangleup</code>	ox25b2 6 6d black up-pointing triangle
U+025B4									<code>\blacktriangle<sup>(a)</sup></code>	up triangle, filled
U+025B6									<code>\blacktriangleright<sup>(a)</sup></code>	(large) right triangle, filled
U+025B8									<code>\smallblacktriangleright</code>	right triangle, filled
U+025B9									<code>\smalltriangleright</code>	right triangle, open
U+025BA									<code>\blackpointerright</code>	black right-pointing pointer
U+025BB									<code>\whitepointerright</code>	white right-pointing pointer
U+025BC									<code>\bigblacktriangledown</code>	big down triangle, filled
U+025BD									<code>\bigtriangledown<sup>(p)</sup></code>	big down triangle, open

USV	M	X	S	C	A	P	D	E	Macro	Description
U+025BE		▼	▼						<code>\blacktriangledown<sup>(a)</sup></code>	down triangle, filled
U+025BF		▽	▽						<code>\triangledown<sup>(a)</sup></code>	down triangle, open
U+025C0	◀	◀	◀		◀	◀	◀		<code>\blacktriangleleft<sup>(a)</sup></code>	(large) left triangle, filled
U+025C2		◀	◀						<code>\smallblacktriangleleft</code>	left triangle, filled
U+025C3		◁	◁						<code>\smalltriangleleft</code>	left triangle, open
U+025C4		◀	◀		◀		◀		<code>\blackpointerleft</code>	black left-pointing pointer
U+025C5		◁	◁		◁				<code>\whitepointerleft</code>	white left-pointing pointer
U+025C6		◆	◆						<code>\mdlgbldiamond</code>	black diamond
U+025C7		◇	◇						<code>\mdlgwhtdiamond</code>	white diamond; diamond, open
U+025C8		◈	◈						<code>\blackinwhitediamond</code>	white diamond containing black small diamond
U+025C9		◯	◯						<code>\fisheye</code>	fisheye
U+025CA	◊	◊	◊	◊		◊	◊		<code>\mdlgwhtlozenge</code>	lozenge or total mark
U+025CC		◯	◯	◯					<code>\dottedcircle</code>	dotted circle
U+025CD		◐	◐						<code>\circlevertfill</code>	circle with vertical fill
U+025CE		◎	◎		◎				<code>\bullseye</code>	bullseye
U+025CF	●	●	●		●	●	●		<code>\mdlgbkcircle</code>	circle, filled
U+025D0		◐	◐						<code>\circlelefthalfblack</code>	circle, filled left half [harvey ball]
U+025D1		◑	◑						<code>\circlerighthalfblack</code>	circle, filled right half
U+025D2		◒	◒						<code>\circlebottomhalfblack</code>	circle, filled bottom half
U+025D3		◕	◕						<code>\circletophalfblack</code>	circle, filled top half

USV	M	X	S	C	A	P	D	E	Macro	Description
U+025D4									<code>\circleurquadblack</code>	circle with upper right quadrant black
U+025D5									<code>\blackcircleulquadwhite</code>	circle with all but upper left quadrant black
U+025D6									<code>\blacklefthalfcircle</code>	left half black circle
U+025D7									<code>\blackrighthalfcircle</code>	right half black circle
U+025D8									<code>\inversebullet</code>	inverse bullet
U+025D9									<code>\inversewhitecircle</code>	inverse white circle
U+025DA									<code>\invwhiteupperhalfcircle</code>	upper half inverse white circle
U+025DB									<code>\invwhitelowerhalfcircle</code>	lower half inverse white circle
U+025DC									<code>\ularc</code>	upper left quadrant circular arc
U+025DD									<code>\urarc</code>	upper right quadrant circular arc
U+025DE									<code>\lrarc</code>	lower right quadrant circular arc
U+025DF									<code>\llarc</code>	lower left quadrant circular arc
U+025E0									<code>\topsemicircle</code>	upper half circle
U+025E1									<code>\botsemicircle</code>	lower half circle
U+025E2									<code>\lrblacktriangle</code>	lower right triangle, filled
U+025E3									<code>\llblacktriangle</code>	lower left triangle, filled
U+025E4									<code>\ulblacktriangle</code>	upper left triangle, filled
U+025E5									<code>\urblacktriangle</code>	upper right triangle, filled

USV	M	X	S	C	A	P	D	E	Macro	Description
U+025E6									<code>\smwhtcircle</code>	white bullet
U+025E7									<code>\squareleftblack</code>	square, filled left half
U+025E8									<code>\squarerightblack</code>	square, filled right half
U+025E9									<code>\squareulblack</code>	square, filled top left corner
U+025EA									<code>\squarelrblack</code>	square, filled bottom right corner
U+025EC									<code>\trianglecdot</code>	triangle with centered dot
U+025ED									<code>\triangleleftblack</code>	up-pointing triangle with left half black
U+025EE									<code>\trianglerightblack</code>	up-pointing triangle with right half black
U+025EF									<code>\lgwhtcircle</code>	large circle
U+025F0									<code>\squareulquad</code>	white square with upper left quadrant
U+025F1									<code>\squarellquad</code>	white square with lower left quadrant
U+025F2									<code>\squarelrquad</code>	white square with lower right quadrant
U+025F3									<code>\squareurquad</code>	white square with upper right quadrant
U+025F4									<code>\circleulquad</code>	white circle with upper left quadrant
U+025F5									<code>\circlellquad</code>	white circle with lower left quadrant
U+025F6									<code>\circlelrquad</code>	white circle with lower right quadrant











































USV	M	X	S	C	A	P	D	E	Macro	Description
U+025F7		☹	☹						\circlearquad	white circle with upper right quadrant
U+025F8		⚡	⚡						\ultriangle	upper left triangle
U+025F9		⚡	⚡						\urtriangle	upper right triangle
U+025FA		⚡	⚡						\lltriangle	lower left triangle
U+025FB		◻	◻		◻				\mdwhtsquare	white medium square
U+025FC		◼	◼		◼				\mdblsquare	black medium square
U+025FD		◻	◻						\mdsmwhtsquare	white medium small square
U+025FE		◼	◼						\mdsmbksquare	black medium small square
U+025FF		⚡	⚡						\lrtriangle	lower right triangle
U+02605		★	★		★				\bigstar <sup>(a)</sup>	star, filled
U+02606		☆	☆		☆				\bigwhitestar	star, open
U+02609		☼	☼						\astrosun	sun
U+02621		⚡	⚡						\danger	dangerous bend (caution sign)
U+0263B		☺	☺						\blacksmiley	black smiling face
U+0263C		☼	☼						\sun	white sun with rays
U+0263D		☾	☾						\rightmoon	first quarter moon
U+0263E		☾	☾						\leftmoon	last quarter moon
U+02640		♀	♀						\female	venus, female
U+02642		♂	♂						\male	mars, male
U+02660	♠	♠	♠	♠	♠	♠	♠		\spadesuit <sup>(p)</sup>	spades suit symbol














































USV	M	X	S	C	A	P	D	E	Macro	Description
U+02661	♥	♡	♡	♡	♡	♡	♡		\heartsuit <sup>(p)</sup>	heart suit symbol
U+02662	♦	♡	♡		♡	♡	♡		\diamondsuit <sup>(p)</sup>	diamond suit symbol
U+02663	♣	♣	♣		♣	♣	♣		\clubsuit <sup>(p)</sup>	club suit symbol
U+02664	♠	♠	♠		♠	♠	♠		\varspadesuit	spade, white (card suit)
U+02665	♥	♡	♡		♡	♥	♡		\varheartsuit	filled heart (card suit)
U+02666	♦	♡	♡	♠	♡	♦	♡		\vardiamondsuit	filled diamond (card suit)
U+02667	♣	♣	♣		♣	♣	♣		\varclubsuit	club, white (card suit)
U+02669		♪	♪		♪				\quarternote	music note (sung text sign)
U+0266A	♪	♪	♪		♪	♪	♪		\eighthnote	eighth note
U+0266B		♪	♪						\twonotes	beamed eighth notes
U+0266D	♭	♭	♭		♭	♭	♭		\flat <sup>(p)</sup>	musical flat
U+0266E	♮	♮	♮		♮	♮	♮		\natural <sup>(p)</sup>	music natural
U+0266F	♯	♯	♯		♯	♯	♯		\sharp <sup>(p)</sup>	musical sharp
U+0267E		♾	♾						\acidfree	permanent paper sign
U+02680		🎲	🎲		🎲				\dicei	die face-1
U+02681		🎲	🎲		🎲				\diceii	die face-2
U+02682		🎲	🎲		🎲				\diceiii	die face-3
U+02683		🎲	🎲		🎲				\diceiv	die face-4
U+02684		🎲	🎲		🎲				\dicev	die face-5
U+02685		🎲	🎲		🎲				\dicevi	die face-6
U+02686		⦿	⦿						\circledrightdot	white circle with dot right
U+02687		⦿	⦿						\circledtwodots	white circle with two dots


























































USV	M	X	S	C	A	P	D	E	Macro	Description
U+02688									<code>\blackcircledrightdot</code>	black circle with white dot right
U+02689									<code>\blackcircledtwodots</code>	black circle with two white dots
U+026A5									<code>\Hermaphrodite</code>	male and female sign
U+026AA									<code>\mdwhtcircle</code>	medium white circle
U+026AB									<code>\mdblkcircle</code>	medium black circle
U+026AC									<code>\mdsmwhtcircle</code>	medium small white circle
U+026B2									<code>\neuter</code>	neuter
U+02713									<code>\checkmark</code>	tick, check mark
U+02720									<code>\maltese</code>	maltese cross
U+0272A									<code>\circledstar</code>	circled white star
U+02736									<code>\varstar</code>	six pointed black star
U+0273D									<code>\dingasterisk</code>	heavy teardrop-spoked asterisk
U+0279B									<code>\draftingarrow</code>	right arrow with bold head (drafting)
U+027C0									<code>\threedangle</code>	three dimensional angle
U+027C1									<code>\whiteinwhitetriangle</code>	white triangle containing small white triangle
U+027C3									<code>\subsetcirc</code>	open subset
U+027C4									<code>\supsetcirc</code>	open superset
U+027D0									<code>\diamondcdot</code>	white diamond with centred dot
U+0292B									<code>\rdiagovfdiag</code>	rising diagonal crossing falling diagonal


















































USV	M	X	S	C	A	P	D	E	Macro	Description
U+0292C		✕	✕	✕	✕				<code>\fdiagovrdiag</code>	falling diagonal crossing rising diagonal
U+0292D		↗	↗	↗	↗				<code>\seovnearrow</code>	south east arrow crossing north east arrow
U+0292E		↗	↗	↗	↗				<code>\neovsearrow</code>	north east arrow crossing south east arrow
U+0292F		↗	↗	↗	↗				<code>\fdiagovnearrow</code>	falling diagonal crossing north east arrow
U+02930		↘	↘	↘	↘				<code>\rdiagovsearrow</code>	rising diagonal crossing south east arrow
U+02931		↗	↗	↗	↗				<code>\neovnwarrow</code>	north east arrow crossing north west arrow
U+02932		↗	↗	↗	↗				<code>\nwovnearrow</code>	north west arrow crossing north east arrow
U+02934		↘	↘	↘	↘				<code>\uprightcurvearrow</code>	arrow pointing rightwards then curving upwards
U+02935		↘	↘	↘	↘				<code>\downrightcurvedarrow</code>	arrow pointing rightwards then curving downwards
U+02981		●	●		●				<code>\mdsmbkcircle</code>	z notation spot
U+02999		⋮	⋮		⋮				<code>\fourvdots</code>	dotted fence
U+0299A		⋈	⋈		⋈				<code>\vzigzag</code>	vertical zigzag line
U+0299B		⦶	⦶		⦶				<code>\measuredangleleft</code>	measured angle opening left
U+0299C		⦶	⦶		⦶				<code>\rightanglesqr</code>	right angle variant with square
U+0299D		⦶	⦶		⦶				<code>\rightanglemdot</code>	measured right angle with dot
U+0299E		⦶	⦶		⦶				<code>\angles</code>	angle with s inside
U+0299F		∠	∠		∠				<code>\angdnr</code>	acute angle














































USV	M	X	S	C	A	P	D	E	Macro	Description
U+029A0									<code>\gtlpar</code>	spherical angle opening left
U+029A1									<code>\sphericalangleup</code>	spherical angle opening up
U+029A2									<code>\turnangle</code>	turned angle
U+029A3									<code>\revangle</code>	reversed angle
U+029A4									<code>\angleubar</code>	angle with underbar
U+029A5									<code>\revangleubar</code>	reversed angle with underbar
U+029A6									<code>\wideangledown</code>	oblique angle opening up
U+029A7									<code>\wideangleup</code>	oblique angle opening down
U+029A8									<code>\measanglerutone</code>	measured angle with open arm ending in arrow pointing up and right
U+029A9									<code>\measanglelutonw</code>	measured angle with open arm ending in arrow pointing up and left
U+029AA									<code>\measanglerdtose</code>	measured angle with open arm ending in arrow pointing down and right
U+029AB									<code>\measangleldtosw</code>	measured angle with open arm ending in arrow pointing down and left
U+029AC									<code>\measangleurtone</code>	measured angle with open arm ending in arrow pointing right and up
U+029AD									<code>\measangleultonw</code>	measured angle with open arm ending in arrow pointing left and up

USV	M	X	S	C	A	P	D	E	Macro	Description
U+029AE									<code>\measangledrtose</code>	measured angle with open arm ending in arrow pointing right and down
U+029AF									<code>\measangledltosw</code>	measured angle with open arm ending in arrow pointing left and down
U+029B0									<code>\revemptyset</code>	reversed empty set
U+029B1									<code>\emptysettoabar</code>	empty set with overbar
U+029B2									<code>\emptysettocirc</code>	empty set with small circle above
U+029B3									<code>\emptysettoarr</code>	empty set with right arrow above
U+029B4									<code>\emptysettoarrl</code>	empty set with left arrow above
U+029BA									<code>\obot</code>	circle divided by horizontal bar and top half divided by vertical bar
U+029BB									<code>\olcross</code>	circle with superimposed x
U+029BC									<code>\odotslashdot</code>	circled anticlockwise-rotated division sign
U+029BD									<code>\uparrowoncircle</code>	up arrow through circle
U+029BE									<code>\circledwhitebullet</code>	circled white bullet
U+029BF									<code>\circledbullet</code>	circled bullet
U+029C2									<code>\cirscir</code>	circle with small circle to the right
U+029C3									<code>\cirE</code>	circle with two horizontal strokes to the right

USV	M	X	S	C	A	P	D	E	Macro	Description
U+029C9									<code>\boxonbox</code>	two joined squares
U+029CA									<code>\triangleodot</code>	triangle with dot above
U+029CB									<code>\triangleubar</code>	triangle with underbar
U+029CC									<code>\triangles</code>	s in triangle
U+029DC									<code>\iinfin</code>	incomplete infinity
U+029DD									<code>\tieinfty</code>	tie over infinity
U+029DE									<code>\nvinfty</code>	infinity negated with vertical bar
U+029E0									<code>\laplac</code>	square with contoured outline
U+029E7									<code>\thermod</code>	thermodynamic
U+029E8									<code>\downtriangleleftblack</code>	down-pointing triangle with left half black
U+029E9									<code>\downtrianglerightblack</code>	down-pointing triangle with right half black
U+029EA									<code>\blackdiamonddownarrow</code>	black diamond with down arrow
U+029EC									<code>\circledownarrow</code>	white circle with down arrow
U+029ED									<code>\blackcircledownarrow</code>	black circle with down arrow
U+029EE									<code>\errbarsquare</code>	error-barred white square
U+029EF									<code>\errbarblacksquare</code>	error-barred black square
U+029F0									<code>\errbardiamond</code>	error-barred white diamond
U+029F1									<code>\errbarblackdiamond</code>	error-barred black diamond
U+029F2									<code>\errbarcircle</code>	error-barred white circle

USV	M	X	S	C	A	P	D	E	Macro	Description
U+029F3									<code>\errbarblackcircle</code>	error-barred black circle
U+02AE1									<code>\perps</code>	perpendicular with s
U+02AF1									<code>\topcir</code>	down tack with circle below
U+02B12									<code>\squaretopblack</code>	square with top half black
U+02B13									<code>\squarebotblack</code>	square with bottom half black
U+02B14									<code>\squareurbblack</code>	square with upper right diagonal half black
U+02B15									<code>\squarellblack</code>	square with lower left diagonal half black
U+02B16									<code>\diamondleftblack</code>	diamond with left half black
U+02B17									<code>\diamondrightblack</code>	diamond with right half black
U+02B18									<code>\diamondtopblack</code>	diamond with top half black
U+02B19									<code>\diamondbotblack</code>	diamond with bottom half black
U+02B1A									<code>\dottedsquare</code>	dotted square
U+02B1B									<code>\lgblksquare</code>	black large square
U+02B1C									<code>\lgwhtsquare</code>	white large square
U+02B1D									<code>\vysmblksquare</code>	black very small square
U+02B1E									<code>\vysmwhtsquare</code>	white very small square
U+02B1F									<code>\pentagonblack</code>	black pentagon
U+02B20									<code>\pentagon</code>	white pentagon
U+02B21									<code>\varhexagon</code>	white hexagon

USV	M	X	S	C	A	P	D	E	Macro	Description
U+02B22									<code>\varhexagonblack</code>	black hexagon
U+02B23									<code>\hexagonblack</code>	horizontal black hexagon
U+02B24									<code>\lgblkcircle</code>	black large circle
U+02B25									<code>\mdblkdiamond</code>	black medium diamond
U+02B26									<code>\mdwhtdiamond</code>	white medium diamond
U+02B27									<code>\mdblklozenge</code>	black medium lozenge
U+02B28									<code>\mdwhtlozenge</code>	white medium lozenge
U+02B29									<code>\smbldiamond</code>	black small diamond
U+02B2A									<code>\smblklozenge</code>	black small lozenge
U+02B2B									<code>\smwhtlozenge</code>	white small lozenge
U+02B2C									<code>\blkhorzoval</code>	black horizontal ellipse
U+02B2D									<code>\whthorzoval</code>	white horizontal ellipse
U+02B2E									<code>\blkvertoval</code>	black vertical ellipse
U+02B2F									<code>\whtvertoval</code>	white vertical ellipse
U+02B50									<code>\medwhitestar</code>	white medium star
U+02B51									<code>\medblackstar</code>	black medium star
U+02B52									<code>\smwhitestar</code>	white small star
U+02B53									<code>\rightpentagonblack</code>	black right-pointing pentagon
U+02B54									<code>\rightpentagon</code>	white right-pointing pentagon
U+03012									<code>\postalmark</code>	postal mark

USV	M	X	S	C	A	P	D	E	Macro	Description
U+03030		≈	≈						\hzigzag	zigzag
U+1D7CE	0	0	0	0	0	0	0	0	\mbfzero	mathematical bold digit 0
U+1D7CF	1	1	1	1	1	1	1	1	\mbfone	mathematical bold digit 1
U+1D7D0	2	2	2	2	2	2	2	2	\mbftwo	mathematical bold digit 2
U+1D7D1	3	3	3	3	3	3	3	3	\mbfthree	mathematical bold digit 3
U+1D7D2	4	4	4	4	4	4	4	4	\mbffour	mathematical bold digit 4
U+1D7D3	5	5	5	5	5	5	5	5	\mbffive	mathematical bold digit 5
U+1D7D4	6	6	6	6	6	6	6	6	\mbfsix	mathematical bold digit 6
U+1D7D5	7	7	7	7	7	7	7	7	\mbfseven	mathematical bold digit 7
U+1D7D6	8	8	8	8	8	8	8	8	\mbfeight	mathematical bold digit 8
U+1D7D7	9	9	9	9	9	9	9	9	\mbfnine	mathematical bold digit 9
U+1D7D8	0	0	0	0	0	0	0		\Bbbzero	mathematical double-struck digit 0
U+1D7D9	1	1	1	1	1	1	1		\Bbbone	mathematical double-struck digit 1
U+1D7DA	2	2	2	2	2	2	2		\Bbbtwo	mathematical double-struck digit 2
U+1D7DB	3	3	3	3	3	3	3		\Bbbthree	mathematical double-struck digit 3
U+1D7DC	4	4	4	4	4	4	4		\Bbbfour	mathematical double-struck digit 4
U+1D7DD	5	5	5	5	5	5	5		\Bbbfive	mathematical double-struck digit 5
U+1D7DE	6	6	6	6	6	6	6		\Bbbsix	mathematical double-struck digit 6

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D7DF	7	7	7	7	7	7	7		\Bbbseven	mathematical double-struck digit 7
U+1D7E0	8	8	8	8	8	8	8		\Bbbeight	mathematical double-struck digit 8
U+1D7E1	9	9	9	9	9	9	9		\Bbbnine	mathematical double-struck digit 9
U+1D7E2	0	0	0	0	0	0	0		\msanszero	mathematical sans-serif digit 0
U+1D7E3	1	1	1	1	1	1	1		\msansone	mathematical sans-serif digit 1
U+1D7E4	2	2	2	2	2	2	2		\msanstwo	mathematical sans-serif digit 2
U+1D7E5	3	3	3	3	3	3	3		\msansthree	mathematical sans-serif digit 3
U+1D7E6	4	4	4	4	4	4	4		\msansfour	mathematical sans-serif digit 4
U+1D7E7	5	5	5	5	5	5	5		\msansfive	mathematical sans-serif digit 5
U+1D7E8	6	6	6	6	6	6	6		\msanssix	mathematical sans-serif digit 6
U+1D7E9	7	7	7	7	7	7	7		\msansseven	mathematical sans-serif digit 7
U+1D7EA	8	8	8	8	8	8	8		\msanseight	mathematical sans-serif digit 8
U+1D7EB	9	9	9	9	9	9	9		\msansnine	mathematical sans-serif digit 9
U+1D7EC	0	0	0	0	0	0	0		\mbfsanszero	mathematical sans-serif bold digit 0
U+1D7ED	1	1	1	1	1	1	1		\mbfsansone	mathematical sans-serif bold digit 1
U+1D7EE	2	2	2	2	2	2	2		\mbfsanstwo	mathematical sans-serif bold digit 2
U+1D7EF	3	3	3	3	3	3	3		\mbfsansthree	mathematical sans-serif bold digit 3
U+1D7F0	4	4	4	4	4	4	4		\mbfsansfour	mathematical sans-serif bold digit 4

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D7F1	5	5	5	5	5	5	5		<code>\mbfsansfive</code>	mathematical sans-serif bold digit 5
U+1D7F2	6	6	6	6	6	6	6		<code>\mbfsanssix</code>	mathematical sans-serif bold digit 6
U+1D7F3	7	7	7	7	7	7	7		<code>\mbfsansseven</code>	mathematical sans-serif bold digit 7
U+1D7F4	8	8	8	8	8	8	8		<code>\mbfsanseight</code>	mathematical sans-serif bold digit 8
U+1D7F5	9	9	9	9	9	9	9		<code>\mbfsansnine</code>	mathematical sans-serif bold digit 9
U+1D7F6	0	0	0	0	0	0	0		<code>\mttzero</code>	mathematical monospace digit 0
U+1D7F7	1	1	1	1	1	1	1		<code>\mttone</code>	mathematical monospace digit 1
U+1D7F8	2	2	2	2	2	2	2		<code>\mtttwo</code>	mathematical monospace digit 2
U+1D7F9	3	3	3	3	3	3	3		<code>\mttthree</code>	mathematical monospace digit 3
U+1D7FA	4	4	4	4	4	4	4		<code>\mttfour</code>	mathematical monospace digit 4
U+1D7FB	5	5	5	5	5	5	5		<code>\mttfive</code>	mathematical monospace digit 5
U+1D7FC	6	6	6	6	6	6	6		<code>\mttsix</code>	mathematical monospace digit 6
U+1D7FD	7	7	7	7	7	7	7		<code>\mttseven</code>	mathematical monospace digit 7
U+1D7FE	8	8	8	8	8	8	8		<code>\mtteight</code>	mathematical monospace digit 8
U+1D7FF	9	9	9	9	9	9	9		<code>\mttnine</code>	mathematical monospace digit 9



## 12 Relation symbols, `\mathrel`

USV	M	X	S	C	A	P	D	E	Macro	Description
U+0003C	<	<	<	<	<	<	<	<	<code>\less</code>	less-than sign r:
U+0003D	=	=	=	=	=	=	=	=	<code>\equal</code>	equals sign r:
U+0003E	>	>	>	>	>	>	>	>	<code>\greater</code>	greater-than sign r:
U+02050		⊂	⊂		⊂				<code>\closure</code>	close up
U+02190	←	←	←	←	←	←	←	←	<code>\leftarrow<sup>(p)</sup></code>	/leftarrow /gets a: leftward arrow
U+02191	↑	↑	↑	↑	↑	↑	↑	↑	<code>\uparrow<sup>(p)</sup></code>	upward arrow
U+02192	→	→	→	→	→	→	→	→	<code>\rightarrow<sup>(p)</sup></code>	/rightarrow /to a: rightward arrow
U+02193	↓	↓	↓	↓	↓	↓	↓	↓	<code>\downarrow<sup>(p)</sup></code>	downward arrow
U+02194	↔	↔	↔	↔	↔	↔	↔	↔	<code>\leftrightarrow<sup>(p)</sup></code>	left and right arrow
U+02195	↕	↕	↕	↕	↕	↕	↕	↕	<code>\updownarrow<sup>(p)</sup></code>	up and down arrow
U+02196	↖	↖	↖	↖	↖	↖	↖	↖	<code>\nwarrow<sup>(p)</sup></code>	nw pointing arrow
U+02197	↗	↗	↗	↗	↗	↗	↗	↗	<code>\nearrow<sup>(p)</sup></code>	ne pointing arrow
U+02198	↘	↘	↘	↘	↘	↘	↘	↘	<code>\searrow<sup>(p)</sup></code>	se pointing arrow
U+02199	↙	↙	↙	↙	↙	↙	↙	↙	<code>\swarrow<sup>(p)</sup></code>	sw pointing arrow
U+0219A	↚	↚	↚	↚	↚	↚	↚		<code>\nleftarrow<sup>(a)</sup></code>	not left arrow
U+0219B	↛	↛	↛	↛	↛	↛	↛		<code>\nrightarrow<sup>(a)</sup></code>	not right arrow
U+0219C		↪	↪	↪	↪				<code>\leftwvearrow</code>	left arrow-wavy
U+0219D		↩	↩	↩	↩				<code>\rightwvearrow</code>	right arrow-wavy
U+0219E	↔	↔	↔	↔	↔	↔	↔		<code>\twoheadleftarrow<sup>(a)</sup></code>	left two-headed arrow
U+0219F	↕	↕	↕	↕	↕	↕	↕		<code>\twoheaduparrow</code>	up two-headed arrow
U+021A0	↔	↔	↔	↔	↔	↔	↔		<code>\twoheadrightarrow<sup>(a)</sup></code>	right two-headed arrow

USV	M	X	S	C	A	P	D	E	Macro	Description
U+021A1									<code>\twoheaddownarrow</code>	down two-headed arrow
U+021A2									<code>\leftarrowtail</code> <sup>(a)</sup>	left arrow-tailed
U+021A3									<code>\rightarrowtail</code> <sup>(a)</sup>	right arrow-tailed
U+021A4									<code>\mapsfrom</code>	maps to, leftward
U+021A5									<code>\mapsup</code>	maps to, upward
U+021A6									<code>\mapsto</code> <sup>(p)</sup>	maps to, rightward
U+021A7									<code>\mapsdown</code>	maps to, downward
U+021A9									<code>\hookleftarrow</code> <sup>(p)</sup>	left arrow-hooked
U+021AA									<code>\hookrightarrow</code> <sup>(p)</sup>	right arrow-hooked
U+021AB									<code>\looparrowleft</code> <sup>(a)</sup>	left arrow-looped
U+021AC									<code>\looparrowright</code> <sup>(a)</sup>	right arrow-looped
U+021AD									<code>\leftrightsquigarrow</code> <sup>(a)</sup>	left and right arrow-wavy
U+021AE									<code>\nleftrightarrow</code> <sup>(a)</sup>	not left and right arrow
U+021AF									<code>\downzigzagarrow</code>	downwards zigzag arrow
U+021B0									<code>\Lsh</code> <sup>(a)</sup>	/lsh a:
U+021B1									<code>\Rsh</code> <sup>(a)</sup>	/rsh a:
U+021B2									<code>\Ldsh</code>	left down angled arrow
U+021B3									<code>\Rdsh</code>	right down angled arrow
U+021B6									<code>\curvearrowleft</code> <sup>(a)</sup>	left curved arrow
U+021B7									<code>\curvearrowright</code> <sup>(a)</sup>	right curved arrow
U+021BC									<code>\leftharpoonup</code> <sup>(p)</sup>	left harpoon-up
U+021BD									<code>\leftharpoondown</code> <sup>(p)</sup>	left harpoon-down

USV	M	X	S	C	A	P	D	E	Macro	Description
U+021BE	↗	↘	↙	↖	↗	↘	↙	↖	<code>\upharpoonright<sup>(a)</sup></code>	/upharpoonright /restriction a: up harpoon-right
U+021BF	↖	↗	↘	↙	↖	↗	↘	↙	<code>\upharpoonleft<sup>(a)</sup></code>	up harpoon-left
U+021C0	↗	↘	↙	↖	↗	↘	↙	↖	<code>\rightharpoonup<sup>(p)</sup></code>	right harpoon-up
U+021C1	↘	↗	↙	↖	↘	↗	↙	↖	<code>\rightharpoondown<sup>(p)</sup></code>	right harpoon-down
U+021C2	↘	↗	↙	↖	↘	↗	↙	↖	<code>\downharpoonright<sup>(a)</sup></code>	down harpoon-right
U+021C3	↖	↗	↘	↙	↖	↗	↘	↙	<code>\downharpoonleft<sup>(a)</sup></code>	down harpoon-left
U+021C4	↔	↔	↔	↔	↔	↔	↔		<code>\rightleftarrows<sup>(a)</sup></code>	right arrow over left arrow
U+021C5	↕	↕	↕	↕	↕	↕	↕		<code>\updownarrows</code>	up arrow, down arrow
U+021C6	↔	↔	↔	↔	↔	↔	↔		<code>\leftrightharpoons<sup>(a)</sup></code>	left arrow over right arrow
U+021C7	⇐	⇐	⇐	⇐	⇐	⇐	⇐		<code>\leftleftarrows<sup>(a)</sup></code>	two left arrows
U+021C8	⇑	⇑	⇑	⇑	⇑	⇑	⇑		<code>\upuparrows<sup>(a)</sup></code>	two up arrows
U+021C9	⇒	⇒	⇒	⇒	⇒	⇒	⇒		<code>\rightrightarrows<sup>(a)</sup></code>	two right arrows
U+021CA	⇓	⇓	⇓	⇓	⇓	⇓	⇓		<code>\downdownarrows<sup>(a)</sup></code>	two down arrows
U+021CB	↔	↔	↔	↔	↔	↔	↔	↔	<code>\leftrightharpoons<sup>(a)</sup></code>	left harpoon over right
U+021CC	⇐	⇐	⇐	⇐	⇐	⇐	⇐	⇐	<code>\rightleftharpoons<sup>(l)</sup></code>	right harpoon over left
U+021CD	⇏	⇏	⇏	⇏	⇏	⇏	⇏		<code>\nLeftarrow<sup>(a)</sup></code>	not implied by
U+021CE	⇏	⇏	⇏	⇏	⇏	⇏	⇏		<code>\nLeftrightarrow<sup>(a)</sup></code>	not left and right double arrows
U+021CF	⇏	⇏	⇏	⇏	⇏	⇏	⇏		<code>\nRightarrow<sup>(a)</sup></code>	not implies
U+021D0	⇐	⇐	⇐	⇐	⇐	⇐	⇐	⇐	<code>\Leftarrow<sup>(p)</sup></code>	is implied by
U+021D1	⇑	⇑	⇑	⇑	⇑	⇑	⇑	⇑	<code>\Uparrow<sup>(p)</sup></code>	up double arrow
U+021D2	⇒	⇒	⇒	⇒	⇒	⇒	⇒	⇒	<code>\Rightarrow<sup>(p)</sup></code>	implies

USV	M	X	S	C	A	P	D	E	Macro	Description
U+021D3									<code>\Downarrow<sup>(p)</sup></code>	down double arrow
U+021D4									<code>\Leftrightarrow<sup>(p)</sup></code>	left and right double arrow
U+021D5									<code>\Updownarrow<sup>(p)</sup></code>	up and down double arrow
U+021D6									<code>\Nwarrow</code>	nw pointing double arrow
U+021D7									<code>\Nearrow</code>	ne pointing double arrow
U+021D8									<code>\Searrow</code>	se pointing double arrow
U+021D9									<code>\Swarrow</code>	sw pointing double arrow
U+021DA									<code>\Lleftarrow<sup>(a)</sup></code>	left triple arrow
U+021DB									<code>\Rrightarrow<sup>(a)</sup></code>	right triple arrow
U+021DC									<code>\leftsquigarrow</code>	leftwards squiggle arrow
U+021DD									<code>\rightsquigarrow<sup>(a)</sup></code>	rightwards squiggle arrow
U+021E4									<code>\barleftarrow</code>	leftwards arrow to bar
U+021E5									<code>\rightarrowbar</code>	rightwards arrow to bar
U+021F4									<code>\circlearrowright</code>	right arrow with small circle
U+021F5									<code>\downuparrows</code>	downwards arrow leftwards of upwards arrow
U+021F6									<code>\rightthreearrows</code>	three rightwards arrows
U+021F7									<code>\nvleftarrow</code>	leftwards arrow with vertical stroke
U+021F8									<code>\nvrightarrow</code>	rightwards arrow with vertical stroke
U+021F9									<code>\nvleftrightharrow</code>	left right arrow with vertical stroke

USV	M	X	S	C	A	P	D	E	Macro	Description
U+021FA		↔	↔	↔	↔				<code>\nVleftarrow</code>	leftwards arrow with double vertical stroke
U+021FB		↗	↗	↗	↗				<code>\nVrightarrow</code>	rightwards arrow with double vertical stroke
U+021FC		↔	↔	↔	↔				<code>\nVleftrightharrow</code>	left right arrow with double vertical stroke
U+021FD		↖	↖	↖	↖				<code>\leftarrowtriangle</code>	leftwards open-headed arrow
U+021FE		↗	↗	↗	↗				<code>\rightarrowtriangle</code>	rightwards open-headed arrow
U+021FF		↔	↔	↔	↔				<code>\leftrightharrowtriangle</code>	left right open-headed arrow
U+02208	∈	∈	∈	∈	∈	∈	∈	∈	<code>\in<sup>(p)</sup></code>	set membership, variant
U+02209	∉	∉	∉	∉	∉	∉	∉	∉	<code>\notin<sup>(l)</sup></code>	negated set membership
U+0220A	∈	∈	∈	∈	∈	∈	∈		<code>\smallin</code>	set membership (small set membership)
U+0220B	⊃	⊃	⊃	⊃	⊃	⊃	⊃	⊃	<code>\ni<sup>(p)</sup></code>	contains, variant
U+0220C	⊄	⊄	⊄	⊄	⊄	⊄	⊄	⊄	<code>\nni</code>	negated contains, variant
U+0220D	⊃	⊃	⊃	⊃	⊃	⊃	⊃		<code>\smallni</code>	/ni /owns r: contains (small contains as member)
U+0221D	∝	∝	∝	∝	∝	∝	∝	∝	<code>\propto<sup>(p)</sup></code>	is proportional to
U+02223									<code>\mid<sup>(p)</sup></code>	/mid r:
U+02224	⧸	⧸	⧸	⧸	⧸	⧸	⧸		<code>\nmid<sup>(a)</sup></code>	negated mid
U+02225									<code>\parallel<sup>(p)</sup></code>	parallel
U+02226	⧻	⧻	⧻	⧻	⧻	⧻	⧻		<code>\nparallel<sup>(a)</sup></code>	not parallel
U+02236	:	:	:	:	:	:	:	:	<code>\mathratio</code>	ratio
U+02237	::	::	::	::	::	::	::	::	<code>\Colon</code>	two colons
U+02239	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	<code>\dashcolon</code>	excess (⋮)

usv	M	X	S	C	A	P	D	E	Macro	Description
U+0223A	$\dot{\cdot}$	$\ddot{\cdot}$	$\dot{\cdot}$	$\dot{\cdot}$	$\dot{\cdot}$	$\dot{\cdot}$	$\dot{\cdot}$	$\dot{\cdot}$	<code>\dotsminusdots</code>	minus with four dots, geometric properties
U+0223B	$\dot{\sim}$	$\dot{\sim}$	$\dot{\sim}$	$\dot{\sim}$	$\dot{\sim}$	$\dot{\sim}$	$\dot{\sim}$	$\dot{\sim}$	<code>\kernelcontraction</code>	homothetic
U+0223C	$\sim$	$\sim$	$\sim$	$\sim$	$\sim$	$\sim$	$\sim$	$\sim$	<code>\sim<sup>(p)</sup></code>	similar
U+0223D	$\smile$	$\smile$	$\smile$	$\smile$	$\smile$	$\smile$	$\smile$	$\smile$	<code>\backsim<sup>(a)</sup></code>	reverse similar
U+02241	$\nsmile$	$\nsmile$	$\nsmile$	$\nsmile$	$\nsmile$	$\nsmile$	$\nsmile$	$\nsmile$	<code>\nsim<sup>(a)</sup></code>	not similar
U+02242	$\eqsim$	$\eqsim$	$\eqsim$	$\eqsim$	$\eqsim$	$\eqsim$	$\eqsim$	$\eqsim$	<code>\eqsim<sup>(a)</sup></code>	equals, similar
U+02243	$\simeq$	$\simeq$	$\simeq$	$\simeq$	$\simeq$	$\simeq$	$\simeq$	$\simeq$	<code>\simeq<sup>(p)</sup></code>	similar, equals
U+02244	$\nsimeq$	$\nsimeq$	$\nsimeq$	$\nsimeq$	$\nsimeq$	$\nsimeq$	$\nsimeq$	$\nsimeq$	<code>\nsime</code>	not similar, equals
U+02243	$\simeq$	$\simeq$	$\simeq$	$\simeq$	$\simeq$	$\simeq$	$\simeq$	$\simeq$	<code>\sime</code>	similar, equals (alias)
U+02244	$\nsimeq$	$\nsimeq$	$\nsimeq$	$\nsimeq$	$\nsimeq$	$\nsimeq$	$\nsimeq$	$\nsimeq$	<code>\nsimeq</code>	not similar, equals (alias)
U+02245	$\cong$	$\cong$	$\cong$	$\cong$	$\cong$	$\cong$	$\cong$	$\cong$	<code>\cong<sup>(l)</sup></code>	congruent with
U+02246	$\nsimneqq$	$\nsimneqq$	$\nsimneqq$	$\nsimneqq$	$\nsimneqq$	$\nsimneqq$	$\nsimneqq$	$\nsimneqq$	<code>\simneqq</code>	similar, not equals [vert only for 9573 entity]
U+02247	$\ncong$	$\ncong$	$\ncong$	$\ncong$	$\ncong$	$\ncong$	$\ncong$	$\ncong$	<code>\ncong<sup>(a)</sup></code>	not congruent with
U+02248	$\approx$	$\approx$	$\approx$	$\approx$	$\approx$	$\approx$	$\approx$	$\approx$	<code>\approx<sup>(p)</sup></code>	approximate
U+02249	$\napprox$	$\napprox$	$\napprox$	$\napprox$	$\napprox$	$\napprox$	$\napprox$	$\napprox$	<code>\napprox</code>	not approximate
U+0224A	$\approxeq$	$\approxeq$	$\approxeq$	$\approxeq$	$\approxeq$	$\approxeq$	$\approxeq$	$\approxeq$	<code>\approxeq<sup>(a)</sup></code>	approximate, equals
U+0224B	$\approxident$	$\approxident$	$\approxident$	$\approxident$	$\approxident$	$\approxident$	$\approxident$	$\approxident$	<code>\approxident</code>	approximately identical to
U+0224C	$\allt$	$\allt$	$\allt$	$\allt$	$\allt$	$\allt$	$\allt$	$\allt$	<code>\backcong</code>	all equal to
U+0224D	$\asymp$	$\asymp$	$\asymp$	$\asymp$	$\asymp$	$\asymp$	$\asymp$	$\asymp$	<code>\asymp<sup>(p)</sup></code>	asymptotically equal to
U+0224E	$\bumpeq$	$\bumpeq$	$\bumpeq$	$\bumpeq$	$\bumpeq$	$\bumpeq$	$\bumpeq$	$\bumpeq$	<code>\Bumpeq<sup>(a)</sup></code>	bumpy equals
U+0224F	$\bumpeq$	$\bumpeq$	$\bumpeq$	$\bumpeq$	$\bumpeq$	$\bumpeq$	$\bumpeq$	$\bumpeq$	<code>\bumpeq<sup>(a)</sup></code>	bumpy equals, equals

USV	M	X	S	C	A	P	D	E	Macro	Description
U+02250	$\dot{=}$	$\dot{=}$	$\dot{=}$	$\dot{=}$	$\dot{=}$	$\dot{=}$	$\dot{=}$		<code>\doteq<sup>(1)</sup></code>	equals, single dot above
U+02251	$\ddot{=}$	$\ddot{=}$	$\ddot{=}$	$\ddot{=}$	$\ddot{=}$	$\ddot{=}$	$\ddot{=}$		<code>\Doteq<sup>(a)</sup></code>	<code>/doteqdot</code> <code>/doteq</code> r: equals, even dots
U+02252	$\fallingdotseq$	$\fallingdotseq$	$\fallingdotseq$	$\fallingdotseq$	$\fallingdotseq$	$\fallingdotseq$	$\fallingdotseq$		<code>\fallingdotseq<sup>(a)</sup></code>	equals, falling dots
U+02253	$\risingdotseq$	$\risingdotseq$	$\risingdotseq$	$\risingdotseq$	$\risingdotseq$	$\risingdotseq$	$\risingdotseq$		<code>\risingdotseq<sup>(a)</sup></code>	equals, rising dots
U+02254	$\coloneq$	$\coloneq$	$\coloneq$	$\coloneq$	$\coloneq$	$\coloneq$	$\coloneq$		<code>\coloneq</code>	colon, equals
U+02255	$\eqcolon$	$\eqcolon$	$\eqcolon$	$\eqcolon$	$\eqcolon$	$\eqcolon$	$\eqcolon$		<code>\eqcolon</code>	equals, colon
U+02256	$\eqcirc$	$\eqcirc$	$\eqcirc$	$\eqcirc$	$\eqcirc$	$\eqcirc$	$\eqcirc$		<code>\eqcirc<sup>(a)</sup></code>	circle on equals sign
U+02257	$\circeq$	$\circeq$	$\circeq$	$\circeq$	$\circeq$	$\circeq$	$\circeq$		<code>\circeq<sup>(a)</sup></code>	circle, equals
U+02258	$\arceq$	$\arceq$	$\arceq$	$\arceq$	$\arceq$	$\arceq$	$\arceq$		<code>\arceq</code>	arc, equals; corresponds to
U+02259	$\wedgeeq$	$\wedgeeq$	$\wedgeeq$	$\wedgeeq$	$\wedgeeq$	$\wedgeeq$	$\wedgeeq$		<code>\wedgeeq</code>	corresponds to (wedge, equals)
U+0225A	$\veeq$	$\veeq$	$\veeq$	$\veeq$	$\veeq$	$\veeq$	$\veeq$		<code>\veeq</code>	logical or, equals
U+0225B	$\stareq$	$\stareq$	$\stareq$	$\stareq$	$\stareq$	$\stareq$	$\stareq$		<code>\stareq</code>	star equals
U+0225C	$\triangleq$	$\triangleq$	$\triangleq$	$\triangleq$	$\triangleq$	$\triangleq$	$\triangleq$		<code>\triangleq<sup>(a)</sup></code>	triangle, equals
U+0225D	$\defeq$	$\defeq$	$\defeq$	$\defeq$	$\defeq$	$\defeq$	$\defeq$		<code>\defeq</code>	equals by definition
U+0225E	$\measeq$	$\measeq$	$\measeq$	$\measeq$	$\measeq$	$\measeq$	$\measeq$		<code>\measeq</code>	measured by (m over equals)
U+0225F	$\questeq$	$\questeq$	$\questeq$	$\questeq$	$\questeq$	$\questeq$	$\questeq$		<code>\questeq</code>	equal with questionmark
U+02260	$\neq$	$\neq$	$\neq$	$\neq$	$\neq$	$\neq$	$\neq$	$\neq$	<code>\neq<sup>(p)</sup></code>	<code>/ne</code> <code>/neq</code> r: not equal
U+02261	$\equiv$	$\equiv$	$\equiv$	$\equiv$	$\equiv$	$\equiv$	$\equiv$	$\equiv$	<code>\equiv<sup>(p)</sup></code>	identical with
U+02262	$\nequiv$	$\nequiv$	$\nequiv$	$\nequiv$	$\nequiv$	$\nequiv$	$\nequiv$	$\nequiv$	<code>\nequiv</code>	not identical with
U+02263	$\Equiv$	$\Equiv$	$\Equiv$	$\Equiv$	$\Equiv$	$\Equiv$	$\Equiv$	$\Equiv$	<code>\Equiv</code>	strict equivalence (4 lines)
U+02264	$\leq$	$\leq$	$\leq$	$\leq$	$\leq$	$\leq$	$\leq$	$\leq$	<code>\leq<sup>(p)</sup></code>	<code>/leq</code> <code>/le</code> r: less-than-or-equal

USV	M	X	S	C	A	P	D	E	Macro	Description
U+02265	$\geq$	$\geq$	$\geq$	$\geq$	$\geq$	$\geq$	$\geq$	$\geq$	$\geq^{(p)}$	$\geq$ / $\geq$ r: greater-than-or-equal
U+02266	$\leq$	$\leq$	$\leq$	$\leq$	$\leq$	$\leq$	$\leq$	$\leq$	$\leq^{(a)}$	less, double equals
U+02267	$\geq$	$\geq$	$\geq$	$\geq$	$\geq$	$\geq$	$\geq$	$\geq$	$\geq^{(a)}$	greater, double equals
U+02268	$\nless$	$\nless$	$\nless$	$\nless$	$\nless$	$\nless$	$\nless$	$\nless$	$\nless^{(a)}$	less, not double equals
U+02269	$\ngtr$	$\ngtr$	$\ngtr$	$\ngtr$	$\ngtr$	$\ngtr$	$\ngtr$	$\ngtr$	$\ngtr^{(a)}$	greater, not double equals
U+0226A	$\ll$	$\ll$	$\ll$	$\ll$	$\ll$	$\ll$	$\ll$		$\ll^{(p)}$	much less than, type 2
U+0226B	$\gg$	$\gg$	$\gg$	$\gg$	$\gg$	$\gg$	$\gg$		$\gg^{(p)}$	much greater than, type 2
U+0226C	$\between$	$\between$	$\between$	$\between$	$\between$	$\between$	$\between$		$\between^{(a)}$	between
U+0226D	$\nasym$	$\nasym$	$\nasym$	$\nasym$	$\nasym$	$\nasym$	$\nasym$		$\nasym$	not asymptotically equal to
U+0226E	$\nless$	$\nless$	$\nless$	$\nless$	$\nless$	$\nless$	$\nless$	$\nless$	$\nless^{(a)}$	not less-than
U+0226F	$\ngtr$	$\ngtr$	$\ngtr$	$\ngtr$	$\ngtr$	$\ngtr$	$\ngtr$	$\ngtr$	$\ngtr^{(a)}$	not greater-than
U+02270	$\nleq$	$\nleq$	$\nleq$	$\nleq$	$\nleq$	$\nleq$	$\nleq$	$\nleq$	$\nleq^{(a)}$	not less-than-or-equal
U+02271	$\ngeq$	$\ngeq$	$\ngeq$	$\ngeq$	$\ngeq$	$\ngeq$	$\ngeq$	$\ngeq$	$\ngeq^{(a)}$	not greater-than-or-equal
U+02272	$\lesssim$	$\lesssim$	$\lesssim$	$\lesssim$	$\lesssim$	$\lesssim$	$\lesssim$	$\lesssim$	$\lesssim^{(a)}$	less, similar
U+02273	$\gtrsim$	$\gtrsim$	$\gtrsim$	$\gtrsim$	$\gtrsim$	$\gtrsim$	$\gtrsim$	$\gtrsim$	$\gtrsim^{(a)}$	greater, similar
U+02274	$\nlesssim$	$\nlesssim$	$\nlesssim$	$\nlesssim$	$\nlesssim$	$\nlesssim$	$\nlesssim$	$\nlesssim$	$\nlesssim$	not less, similar
U+02275	$\ngtrsim$	$\ngtrsim$	$\ngtrsim$	$\ngtrsim$	$\ngtrsim$	$\ngtrsim$	$\ngtrsim$	$\ngtrsim$	$\ngtrsim$	not greater, similar
U+02276	$\lessgtr$	$\lessgtr$	$\lessgtr$	$\lessgtr$	$\lessgtr$	$\lessgtr$	$\lessgtr$	$\lessgtr$	$\lessgtr^{(a)}$	less, greater
U+02277	$\gtrless$	$\gtrless$	$\gtrless$	$\gtrless$	$\gtrless$	$\gtrless$	$\gtrless$	$\gtrless$	$\gtrless^{(a)}$	greater, less
U+02278	$\nlessgtr$	$\nlessgtr$	$\nlessgtr$	$\nlessgtr$	$\nlessgtr$	$\nlessgtr$	$\nlessgtr$	$\nlessgtr$	$\nlessgtr$	not less, greater
U+02279	$\ngtrless$	$\ngtrless$	$\ngtrless$	$\ngtrless$	$\ngtrless$	$\ngtrless$	$\ngtrless$	$\ngtrless$	$\ngtrless$	not greater, less



USV	M	X	S	C	A	P	D	E	Macro	Description
U+0227A	↰	↱	↲	↳	↴	↵	↶		$\backslash\text{prec}^{(p)}$	precedes
U+0227B	↷	↸	↹	↺	↻	↼	↽		$\backslash\text{succ}^{(p)}$	succeeds
U+0227C	↰̸	↱̸	↲̸	↳̸	↴̸	↵̸	↶̸		$\backslash\text{preccurlyeq}^{(a)}$	precedes, curly equals
U+0227D	↷̸	↸̸	↹̸	↺̸	↻̸	↼̸	↽̸		$\backslash\text{succcurlyeq}^{(a)}$	succeeds, curly equals
U+0227E	↰̃	↱̃	↲̃	↳̃	↴̃	↵̃	↶̃		$\backslash\text{precsim}^{(a)}$	precedes, similar
U+0227F	↷̃	↸̃	↹̃	↺̃	↻̃	↼̃	↽̃		$\backslash\text{succsim}^{(a)}$	succeeds, similar
U+02280	↰̸̸	↱̸̸	↲̸̸	↳̸̸	↴̸̸	↵̸̸	↶̸̸		$\backslash\text{nprec}^{(a)}$	not precedes
U+02281	↷̸̸	↸̸̸	↹̸̸	↺̸̸	↻̸̸	↼̸̸	↽̸̸		$\backslash\text{nsucc}^{(a)}$	not succeeds
U+02282	⊂	⊃	⊄	⊅	⊆	⊇	⊈	⊉	$\backslash\text{subset}^{(p)}$	subset or is implied by
U+02283	⊃	⊄	⊅	⊆	⊇	⊈	⊉	⊊	$\backslash\text{supset}^{(p)}$	superset or implies
U+02284	⊄̸	⊅̸	⊈	⊉	⊈̸	⊉̸	⊊̸	⊋̸	$\backslash\text{subset}$	not subset, variant [slash negation]
U+02285	⊈̸̸	⊉̸̸	⊊̸̸	⊋̸̸	⊌̸̸	⊍̸̸	⊎̸̸	⊏̸̸	$\backslash\text{nsupset}$	not superset, variant [slash negation]
U+02286	⊆	⊇	⊈	⊉	⊊	⊋	⊌	⊍	$\backslash\text{subseteq}^{(p)}$	subset, equals
U+02287	⊇	⊈	⊉	⊊	⊋	⊌	⊍	⊎	$\backslash\text{supseteq}^{(p)}$	superset, equals
U+02288	⊈̸	⊉̸	⊈̸̸	⊉̸̸	⊊̸̸	⊋̸̸	⊌̸̸	⊍̸̸	$\backslash\text{subseteq}^{(a)}$	not subset, equals
U+02289	⊈̸̸̸	⊉̸̸̸	⊊̸̸̸	⊋̸̸̸	⊌̸̸̸	⊍̸̸̸	⊎̸̸̸	⊏̸̸̸	$\backslash\text{nsupseteq}^{(a)}$	not superset, equals
U+0228A	⊈̸̸̸	⊉̸̸̸	⊈̸̸̸̸	⊉̸̸̸̸	⊊̸̸̸̸	⊋̸̸̸̸	⊌̸̸̸̸	⊍̸̸̸̸	$\backslash\text{subsetneq}^{(a)}$	subset, not equals
U+0228B	⊉̸̸̸	⊈̸̸̸̸	⊉̸̸̸̸	⊊̸̸̸̸	⊋̸̸̸̸	⊌̸̸̸̸	⊍̸̸̸̸	⊎̸̸̸̸	$\backslash\text{supsetneq}^{(a)}$	superset, not equals
U+0228F	⊆	⊇	⊈	⊉	⊊	⊋	⊌		$\backslash\text{sqsubset}$	square subset
U+02290	⊇	⊈	⊉	⊊	⊋	⊌	⊍		$\backslash\text{sqsupset}$	square superset
U+02291	⊆	⊇	⊈	⊉	⊊	⊋	⊌	⊍	$\backslash\text{sqsubseq}^{(p)}$	square subset, equals

USV	M	X	S	C	A	P	D	E	Macro	Description
U+02292	𐌒	𐌔	𐌖	𐌘	𐌚	𐌜	𐌞	𐌠	<code>\sqsupseteq<sup>(p)</sup></code>	square superset, equals
U+022A2	𐌢	𐌤	𐌦	𐌨	𐌪	𐌬	𐌮	𐌰	<code>\vdash<sup>(p)</sup></code>	vertical, dash
U+022A3	𐌣	𐌥	𐌧	𐌩	𐌫	𐌭	𐌯	𐌱	<code>\dashv<sup>(p)</sup></code>	dash, vertical
U+022A6	𐌦	𐌨	𐌪	𐌬	𐌰	𐌲	𐌴		<code>\assert</code>	assertion (vertical, short dash)
U+022A7	𐌧	𐌩	𐌫	𐌭	𐌯	𐌱	𐌳		<code>\models<sup>(p)</sup></code>	models (vertical, short double dash)
U+022A8	𐌨	𐌪	𐌬	𐌰	𐌲	𐌴	𐌶		<code>\vDash<sup>(a)</sup></code>	vertical, double dash
U+022A9	𐌩	𐌫	𐌭	𐌯	𐌱	𐌳	𐌵		<code>\Vdash<sup>(a)</sup></code>	double vertical, dash
U+022AA	𐌪	𐌬	𐌰	𐌲	𐌴	𐌶	𐌸		<code>\Vvdash<sup>(a)</sup></code>	triple vertical, dash
U+022AB	𐌫	𐌭	𐌯	𐌱	𐌳	𐌵	𐌷		<code>\VDash</code>	double vert, double dash
U+022AC	𐌬	𐌰	𐌲	𐌴	𐌶	𐌸	𐌺		<code>\nvDash<sup>(a)</sup></code>	not vertical, dash
U+022AD	𐌭	𐌯	𐌱	𐌳	𐌵	𐌷	𐌹		<code>\nvDash<sup>(a)</sup></code>	not vertical, double dash
U+022AE	𐌮	𐌰	𐌲	𐌴	𐌶	𐌸	𐌺		<code>\nVdash<sup>(a)</sup></code>	not double vertical, dash
U+022AF	𐌯	𐌱	𐌳	𐌵	𐌷	𐌹	𐌻		<code>\nVDash<sup>(a)</sup></code>	not double vert, double dash
U+022B0		𐌽	𐌿	𐍁	𐍃				<code>\prurel</code>	element precedes under relation
U+022B1		𐍅	𐍇	𐍉	𐍋				<code>\scurel</code>	succeeds under relation
U+022B2	𐍇	𐍈	𐍉	𐍊	𐍋	𐍌	𐍍		<code>\vartriangleleft<sup>(a)</sup></code>	left triangle, open, variant
U+022B3	𐍈	𐍉	𐍊	𐍋	𐍌	𐍍	𐍎		<code>\vartriangleright<sup>(a)</sup></code>	right triangle, open, variant
U+022B4	𐍉	𐍊	𐍋	𐍌	𐍍	𐍎	𐍏		<code>\trianglelefteq<sup>(a)</sup></code>	left triangle, equals
U+022B5	𐍊	𐍋	𐍌	𐍍	𐍎	𐍏	𐍐		<code>\trianglerighteq<sup>(a)</sup></code>	right triangle, equals
U+022B6	𐍑	𐍒	𐍓	𐍔	𐍕	𐍖	𐍗		<code>\origof</code>	original of

USV	M	X	S	C	A	P	D	E	Macro	Description
U+022B7									<code>\imageof</code>	image of
U+022B8									<code>\multimap<sup>(a)</sup></code>	/multimap a:
U+022C8									<code>\bowtie<sup>(p)</sup></code>	bowtie
U+022CD									<code>\backsimeq<sup>(a)</sup></code>	reverse similar, equals
U+022D0									<code>\Subset<sup>(a)</sup></code>	double subset
U+022D1									<code>\Supset<sup>(a)</sup></code>	double superset
U+022D4									<code>\pitchfork<sup>(a)</sup></code>	pitchfork
U+022D5									<code>\equalparallel</code>	parallel, equal; equal or parallel
U+022D6									<code>\lessdot<sup>(a)</sup></code>	less than, with dot
U+022D7									<code>\gtrdot<sup>(a)</sup></code>	greater than, with dot
U+022D8									<code>\lll<sup>(a)</sup></code>	/ll /lll /lless r: triple less-than
U+022D9									<code>\ggg<sup>(a)</sup></code>	/ggg /gg /gggtr r: triple greater-than
U+022DA									<code>\lesseqgtr<sup>(a)</sup></code>	less, equals, greater
U+022DB									<code>\gtreqless<sup>(a)</sup></code>	greater, equals, less
U+022DC									<code>\eqless</code>	equal-or-less
U+022DD									<code>\eqgtr</code>	equal-or-greater
U+022DE									<code>\curlyeqprec<sup>(a)</sup></code>	curly equals, precedes
U+022DF									<code>\curlyeqsucc<sup>(a)</sup></code>	curly equals, succeeds
U+022E0									<code>\npreccurlyeq</code>	not precedes, curly equals
U+022E1									<code>\nsucccurlyeq</code>	not succeeds, curly equals
U+022E2									<code>\nsqsubseteq</code>	not, square subset, equals

USV	M	X	S	C	A	P	D	E	Macro	Description
U+022E3									<code>\nsqsupseteq</code>	not, square superset, equals
U+022E4									<code>\sqsubsetneq</code>	square subset, not equals
U+022E5									<code>\sqsupsetneq</code>	square superset, not equals
U+022E6									<code>\lnsim<sup>(a)</sup></code>	less, not similar
U+022E7									<code>\gnsim<sup>(a)</sup></code>	greater, not similar
U+022E8									<code>\precnsim<sup>(a)</sup></code>	precedes, not similar
U+022E9									<code>\succnsim<sup>(a)</sup></code>	succeeds, not similar
U+022EA									<code>\nvartriangleleft</code>	not left triangle
U+022EB									<code>\nvartriangleright</code>	not right triangle
U+022EC									<code>\ntrianglelefteq<sup>(a)</sup></code>	not left triangle, equals
U+022ED									<code>\ntrianglerighteq<sup>(a)</sup></code>	not right triangle, equals
U+022EE									<code>\vdots<sup>(p)</sup></code>	vertical ellipsis
U+022F0									<code>\adots</code>	three dots, ascending
U+022F1									<code>\ddots<sup>(p)</sup></code>	three dots, descending
U+022F2									<code>\disin</code>	element of with long horizontal stroke
U+022F3									<code>\varisins</code>	element of with vertical bar at end of horizontal stroke
U+022F4									<code>\isins</code>	small element of with vertical bar at end of horizontal stroke
U+022F5									<code>\isindot</code>	element of with dot above
U+022F6									<code>\varisinobar</code>	element of with overbar

USV	M	X	S	C	A	P	D	E	Macro	Description
U+022F7		̸	̶	̣	̤				\isinobar	small element of with overbar
U+022F8		̨	̦	̧	̩				\isinvb	element of with underbar
U+022F9		̥	̦	̧	̩				\isinE	element of with two horizontal strokes
U+022FA		̧	̦	̧	̩				\nisd	contains with long horizontal stroke
U+022FB		̨	̦	̧	̩				\varnis	contains with vertical bar at end of horizontal stroke
U+022FC		̨	̦	̧	̩				\nis	small contains with vertical bar at end of horizontal stroke
U+022FD		̨	̦	̧	̩				\varniobar	contains with overbar
U+022FE		̨	̦	̧	̩				\niobar	small contains with overbar
U+022FF		̥	̦	̧	̩				\bagmember	z notation bag membership
U+02322	⤵	⤵	⤵		⤵	⤵	⤵		\frown <sup>(p)</sup>	down curve
U+02323	⤴	⤴	⤴		⤴	⤴	⤴		\smile <sup>(p)</sup>	up curve
U+0233F		⤵	⤵						\APLnotslash	solidus, bar through (apl functional symbol slash bar)
U+025B5		⤴	⤴						\vartriangle <sup>(a)</sup>	/triangle - up triangle, open
U+027C2	⊥	⊥	⊥		⊥	⊥	⊥		\perp <sup>(p)</sup>	perpendicular
U+027C8		⊃	⊃		⊃				\bsolhsup	reverse solidus preceding subset
U+027C9		⊃	⊃		⊃				\suphsol	superset preceding solidus
U+027D2		⤵	⤵		⤵				\upin	element of opening upwards
U+027D3		⤵	⤵		⤵				\pullback	lower right corner with dot





































































USV	M	X	S	C	A	P	D	E	Macro	Description
U+027D4									<code>\pushout</code>	upper left corner with dot
U+027DA									<code>\DashVDash</code>	left and right double turnstile
U+027DB									<code>\dashVdash</code>	left and right tack
U+027DC									<code>\multimapinv</code>	left multimap
U+027DD									<code>\vlongdash</code>	long left tack
U+027DE									<code>\longdashv</code>	long right tack
U+027DF									<code>\cirbot</code>	up tack with circle above
U+027F0									<code>\UUparrow</code>	upwards quadruple arrow
U+027F1									<code>\DDownarrow</code>	downwards quadruple arrow
U+027F2									<code>\acwgapcirculararrow</code>	anticlockwise gapped circle arrow
U+027F3									<code>\cwgapcirculararrow</code>	clockwise gapped circle arrow
U+027F4									<code>\rightarrowonoplus</code>	right arrow with circled plus
U+027F5									<code>\longleftarrow<sup>(p)</sup></code>	long leftwards arrow
U+027F6									<code>\longrightarrow<sup>(p)</sup></code>	long rightwards arrow
U+027F7									<code>\longleftrightarrow<sup>(p)</sup></code>	long left right arrow
U+027F8									<code>\Longleftarrow<sup>(p)</sup></code>	long leftwards double arrow
U+027F9									<code>\Longrightarrow<sup>(p)</sup></code>	long rightwards double arrow
U+027FA									<code>\Longleftrightarrow<sup>(p)</sup></code>	long left right double arrow
U+027FB									<code>\longmapsfrom</code>	long leftwards arrow from bar

































































USV	M	X	S	C	A	P	D	E	Macro	Description
U+027FC									<code>\longmapsto<sup>(p)</sup></code>	long rightwards arrow from bar
U+027FD									<code>\Longmapsfrom</code>	long leftwards double arrow from bar
U+027FE									<code>\Longmapsto</code>	long rightwards double arrow from bar
U+027FF									<code>\longrightsquigarrow</code>	long rightwards squiggle arrow
U+02900									<code>\nvtwoheadrightarrow</code>	rightwards two-headed arrow with vertical stroke
U+02901									<code>\nVtwoheadrightarrow</code>	rightwards two-headed arrow with double vertical stroke
U+02902									<code>\nvLeftarrow</code>	leftwards double arrow with vertical stroke
U+02903									<code>\nvRrightarrow</code>	rightwards double arrow with vertical stroke
U+02904									<code>\nvLeftrightarrow</code>	left right double arrow with vertical stroke
U+02905									<code>\twoheadmapsto</code>	rightwards two-headed arrow from bar
U+02906									<code>\Mapsfrom</code>	leftwards double arrow from bar
U+02907									<code>\Mapsto</code>	rightwards double arrow from bar
U+02908									<code>\downarrowbarred</code>	downwards arrow with horizontal stroke
U+02909									<code>\uparrowbarred</code>	upwards arrow with horizontal stroke
U+0290A									<code>\Uparrow</code>	upwards triple arrow
U+0290B									<code>\Ddownarrow</code>	downwards triple arrow

USV	M	X	S	C	A	P	D	E	Macro	Description
U+0290C		←	←	←	←				\leftbkarrow	leftwards double dash arrow
U+0290D		→	→	→	→				\rightbkarrow	rightwards double dash arrow
U+0290E		←	←	←	←				\leftdbkarrow	leftwards triple dash arrow
U+0290F		→	→	→	→				\dbkarrow	rightwards triple dash arrow
U+02910		↔	↔	↔	↔				\drbkarrow	rightwards two-headed triple dash arrow
U+02911		→	→	→	→				\rightrightarrow	rightwards arrow with dotted stem
U+02912		↑	↑	↑	↑				\baruparrow	upwards arrow to bar
U+02913		↓	↓	↓	↓				\downarrowbar	downwards arrow to bar
U+02914		→	→	→	→				\nvrightarrowtail	rightwards arrow with tail with vertical stroke
U+02915		→	→	→	→				\nVrightarrowtail	rightwards arrow with tail with double vertical stroke
U+02916		↔	↔	↔	↔				\twoheadrightarrowtail	rightwards two-headed arrow with tail
U+02917		↔	↔	↔	↔				\nvtwoheadrightarrowtail	rightwards two-headed arrow with tail with vertical stroke
U+02918		↔	↔	↔	↔				\nVtwoheadrightarrowtail	rightwards two-headed arrow with tail with double vertical stroke
U+02919		↵	↵	↵	↵				\lefttail	leftwards arrow-tail
U+0291A		↵	↵	↵	↵				\righttail	rightwards arrow-tail
U+0291B		↵	↵	↵	↵				\leftdbltail	leftwards double arrow-tail
U+0291C		↵	↵	↵	↵				\rightdbltail	rightwards double arrow-tail



USV	M	X	S	C	A	P	D	E	Macro	Description
U+0291D		↵	↵	↵	↵				<code>\diamondleftarrow</code>	leftwards arrow to black diamond
U+0291E		➡	➡	➡	➡				<code>\rightarrowdiamond</code>	rightwards arrow to black diamond
U+0291F		↵	↵	↵	↵				<code>\diamondleftarrowbar</code>	leftwards arrow from bar to black diamond
U+02920		➡	➡	➡	➡				<code>\barrightarrowdiamond</code>	rightwards arrow from bar to black diamond
U+02921		↖	↖	↖	↖				<code>\nwsearrow</code>	north west and south east arrow
U+02922		↗	↗	↗	↗				<code>\neswarrow</code>	north east and south west arrow
U+02923		↖	↖	↖	↖				<code>\hknwarrow</code>	north west arrow with hook
U+02924		↗	↗	↗	↗				<code>\hknearrow</code>	north east arrow with hook
U+02925		↘	↘	↘	↘				<code>\hksearrow</code>	south east arrow with hook
U+02926		↙	↙	↙	↙				<code>\hkswarrow</code>	south west arrow with hook
U+02927		↖	↖	↖	↖				<code>\tona</code>	north west arrow and north east arrow
U+02928		↗	↗	↗	↗				<code>\toea</code>	north east arrow and south east arrow
U+02929		↘	↘	↘	↘				<code>\tosa</code>	south east arrow and south west arrow
U+0292A		↙	↙	↙	↙				<code>\towa</code>	south west arrow and north west arrow
U+02933		↪	↪	↪	↪				<code>\rightcurvedarrow</code>	wave arrow pointing directly right
U+02936		↩	↩	↩	↩				<code>\leftdowncurvedarrow</code>	arrow pointing downwards then curving leftwards
U+02937		↪	↪	↪	↪				<code>\rightdowncurvedarrow</code>	arrow pointing downwards then curving rightwards

USV	M	X	S	C	A	P	D	E	Macro	Description
U+02938									<code>\cwrightarcarrow</code>	right-side arc clockwise arrow
U+02939									<code>\acwleftarcarrow</code>	left-side arc anticlockwise arrow
U+0293A									<code>\acwoverarcarrow</code>	top arc anticlockwise arrow
U+0293B									<code>\acwunderarcarrow</code>	bottom arc anticlockwise arrow
U+0293C									<code>\curvearrowrightminus</code>	top arc clockwise arrow with minus
U+0293D									<code>\curvearrowleftplus</code>	top arc anticlockwise arrow with plus
U+0293E									<code>\cwundercurvearrow</code>	lower right semicircular clockwise arrow
U+0293F									<code>\ccwundercurvearrow</code>	lower left semicircular anticlockwise arrow
U+02940									<code>\acwcirculararrow</code>	anticlockwise closed circle arrow
U+02941									<code>\cwcirculararrow</code>	clockwise closed circle arrow
U+02942									<code>\rightarrowshortleftarrow</code>	rightwards arrow above short leftwards arrow
U+02943									<code>\leftarrowshortrightarrow</code>	leftwards arrow above short rightwards arrow
U+02944									<code>\shortrightarrowleftarrow</code>	short rightwards arrow above leftwards arrow
U+02945									<code>\rightarrowplus</code>	rightwards arrow with plus below
U+02946									<code>\leftarrowplus</code>	leftwards arrow with plus below
U+02947									<code>\rightarrowx</code>	rightwards arrow through x
U+02948									<code>\leftrightarrowcircle</code>	left right arrow through small circle

USV	M	X	S	C	A	P	D	E	Macro	Description
U+02949									<code>\twoheaduparrowcircle</code>	upwards two-headed arrow from small circle
U+0294A									<code>\leftrightharpoonupdown</code>	left barb up right barb down harpoon
U+0294B									<code>\leftrightharpoondownup</code>	left barb down right barb up harpoon
U+0294C									<code>\updownharpoonrightleft</code>	up barb right down barb left harpoon
U+0294D									<code>\updownharpoonleftright</code>	up barb left down barb right harpoon
U+0294E									<code>\leftrightharpoonupup</code>	left barb up right barb up harpoon
U+0294F									<code>\updownharpoonrightright</code>	up barb right down barb right harpoon
U+02950									<code>\leftrightharpoondowndown</code>	left barb down right barb down harpoon
U+02951									<code>\updownharpoonleftleft</code>	up barb left down barb left harpoon
U+02952									<code>\barleftharpoonup</code>	leftwards harpoon with barb up to bar
U+02953									<code>\rightharpoonupbar</code>	rightwards harpoon with barb up to bar
U+02954									<code>\barupharpoonright</code>	upwards harpoon with barb right to bar
U+02955									<code>\downharpoonrightbar</code>	downwards harpoon with barb right to bar
U+02956									<code>\barleftharpoondown</code>	leftwards harpoon with barb down to bar
U+02957									<code>\rightharpoondownbar</code>	rightwards harpoon with barb down to bar
U+02958									<code>\barupharpoonleft</code>	upwards harpoon with barb left to bar

USV	M	X	S	C	A	P	D	E	Macro	Description
U+02959		↓	↓	↓	↓				<code>\downharpoonleftbar</code>	downwards harpoon with barb left to bar
U+0295A		←	←	←	←				<code>\leftharpoonupbar</code>	leftwards harpoon with barb up from bar
U+0295B		→	→	→	→				<code>\barriightharpoonup</code>	rightwards harpoon with barb up from bar
U+0295C		↑	↑	↑	↑				<code>\upharpoonrightbar</code>	upwards harpoon with barb right from bar
U+0295D		↓	↓	↓	↓				<code>\bardownharpoonright</code>	downwards harpoon with barb right from bar
U+0295E		←	←	←	←				<code>\leftharpoondownbar</code>	leftwards harpoon with barb down from bar
U+0295F		→	→	→	→				<code>\barriightharpoondown</code>	rightwards harpoon with barb down from bar
U+02960		↑	↑	↑	↑				<code>\upharpoonleftbar</code>	upwards harpoon with barb left from bar
U+02961		↓	↓	↓	↓				<code>\bardownharpoonleft</code>	downwards harpoon with barb left from bar
U+02962		⇐	⇐	⇐	⇐				<code>\leftharpoonsupdown</code>	leftwards harpoon with barb up above leftwards harpoon with barb down
U+02963		⇑	⇑	⇑	⇑				<code>\upharpoonsleftright</code>	upwards harpoon with barb left beside upwards harpoon with barb right
U+02964		⇒	⇒	⇒	⇒				<code>\rightharpoonsupdown</code>	rightwards harpoon with barb up above rightwards harpoon with barb down
U+02965		⇓	⇓	⇓	⇓				<code>\downharpoonsleftright</code>	downwards harpoon with barb left beside downwards harpoon with barb right

USV	M	X	S	C	A	P	D	E	Macro	Description
U+02966		⇐	⇐	⇐	⇐				\leftrightharpoonsup	leftwards harpoon with barb up above rightwards harpoon with barb up
U+02967		⇐	⇐	⇐	⇐				\leftrightharpoonsdown	leftwards harpoon with barb down above rightwards harpoon with barb down
U+02968		⇒	⇒	⇒	⇒				\rightleftharpoonsup	rightwards harpoon with barb up above leftwards harpoon with barb up
U+02969		⇒	⇒	⇒	⇒				\rightleftharpoonsdown	rightwards harpoon with barb down above leftwards harpoon with barb down
U+0296A		⇐	⇐	⇐	⇐				\leftharpoonupdash	leftwards harpoon with barb up above long dash
U+0296B		⇐	⇐	⇐	⇐				\dashleftarrowdown	leftwards harpoon with barb down below long dash
U+0296C		⇒	⇒	⇒	⇒				\rightarrowupdash	rightwards harpoon with barb up above long dash
U+0296D		⇒	⇒	⇒	⇒				\dashrightarrowdown	rightwards harpoon with barb down below long dash
U+0296E		↕	↕	↕	↕				\updownharpoonsleftright	upwards harpoon with barb left beside downwards harpoon with barb right
U+0296F		↕	↕	↕	↕				\downupharpoonsleftright	downwards harpoon with barb left beside upwards harpoon with barb right
U+02970		⇒	⇒	⇒	⇒				\rightimply	right double arrow with rounded head
U+02971		⇒	⇒	⇒	⇒				\equalrightarrow	equals sign above rightwards arrow
U+02972		⇒	⇒	⇒	⇒				\similarrightarrow	tilde operator above rightwards arrow

USV	M	X	S	C	A	P	D	E	Macro	Description
U+02973		↵	↶	↷	↸				<code>\leftarrowsimilar</code>	leftwards arrow above tilde operator
U+02974		↶	↷	↸	↹				<code>\rightarrowsimilar</code>	rightwards arrow above tilde operator
U+02975		↷	↸	↹	↺				<code>\rightarrowapprox</code>	rightwards arrow above almost equal to
U+02976		↵	↶	↷	↸				<code>\ltlarr</code>	less-than above leftwards arrow
U+02977		↶	↷	↸	↹				<code>\leftarrowless</code>	leftwards arrow through less-than
U+02978		↶	↷	↸	↹				<code>\gtrarr</code>	greater-than above rightwards arrow
U+02979		↵	↶	↷	↸				<code>\subrarr</code>	subset above rightwards arrow
U+0297A		↶	↷	↸	↹				<code>\leftarrowsubset</code>	leftwards arrow through subset
U+0297B		↶	↷	↸	↹				<code>\suplarr</code>	superset above leftwards arrow
U+0297C		↵	↶	↷	↸				<code>\leftfishtail</code>	left fish tail
U+0297D		↶	↷	↸	↹				<code>\rightfishtail</code>	right fish tail
U+0297E		↶	↷	↸	↹				<code>\upfishtail</code>	up fish tail
U+0297F		↶	↷	↸	↹				<code>\downfishtail</code>	down fish tail
U+02982		⋈	⋈		⋈				<code>\typecolon</code>	z notation type colon
U+029CE		⚡	⚡		⚡				<code>\rtriltri</code>	right triangle above left triangle
U+029CF		⚡	⚡		⚡				<code>\ltrivb</code>	left triangle beside vertical bar
U+029D0		⚡	⚡		⚡				<code>\vbrtri</code>	vertical bar beside right triangle
U+029D1		⚡	⚡		⚡				<code>\lfbowtie</code>	left black bowtie
U+029D2		⚡	⚡		⚡				<code>\rfbowtie</code>	right black bowtie
U+029D3		⚡	⚡		⚡				<code>\fbowtie</code>	black bowtie

USV	M	X	S	C	A	P	D	E	Macro	Description
U+029D4		✕	✕		✕				<code>\lftimes</code>	left black times
U+029D5		✕	✕		✕				<code>\rftimes</code>	right black times
U+029DF		⌘	⌘		⌘				<code>\dualmap</code>	double-ended multimap
U+029E1		⌵	⌵		⌵				<code>\lrtriangleeq</code>	increases as
U+029E3		#	#		#				<code>\eparsl</code>	equals sign and slanted parallel
U+029E4		≠̃	≠̃		≠̃				<code>\smeparsl</code>	equals sign and slanted parallel with tilde above
U+029E5		#	#		#				<code>\eqvparsl</code>	identical to and slanted parallel
U+029E6		≡	≡		≡				<code>\gleichstark</code>	gleich stark
U+029F4		⤴	⤴		⤴				<code>\ruledelayed</code>	rule-delayed
U+02A59		⋈	⋈		⋈				<code>\veeonwedge</code>	logical or over- lapping logical and
U+02A66		≡̣	≡̣		≡̣				<code>\eqdot</code>	equals sign with dot below
U+02A67		≡̇	≡̇		≡̇				<code>\dotequiv</code>	identical with dot above
U+02A68		≡≡	≡≡		≡≡				<code>\equivVert</code>	triple horizontal bar with double vertical stroke
U+02A69		≡≡	≡≡		≡≡				<code>\equivVvert</code>	triple horizontal bar with triple vertical stroke
U+02A6A		≃̇	≃̇		≃̇				<code>\dotsim</code>	tilde operator with dot above
U+02A6B		≃̣	≃̣		≃̣				<code>\simrdots</code>	tilde operator with rising dots
U+02A6C		≄	≄		≄				<code>\simminusim</code>	similar minus similar
U+02A6D		≡̣̇	≡̣̇		≡̣̇				<code>\congdot</code>	congruent with dot above
U+02A6E		≡*	≡*		≡*				<code>\asteq</code>	equals with aster- isk

USV	M	X	S	C	A	P	D	E	Macro	Description
U+02A6F		≈	≈		≈				<code>\hatapprox</code>	almost equal to with circumflex accent
U+02A70		≈	≈		≈				<code>\approxqq</code>	approximately equal or equal to
U+02A73		≈	≈		≈				<code>\eqqsim</code>	equals sign above tilde operator
U+02A74		≈	≈		≈				<code>\Coloneq</code>	double colon equal
U+02A75		≈	≈		≈				<code>\eqeq</code>	two consecutive equals signs
U+02A76		≈	≈		≈				<code>\eqeqeq</code>	three consecutive equals signs
U+02A77		≈	≈		≈				<code>\ddotseq</code>	equals sign with two dots above and two dots below
U+02A78		≈	≈		≈				<code>\equivDD</code>	equivalent with four dots above
U+02A79		≈	≈		≈				<code>\ltcir</code>	less-than with circle inside
U+02A7A		≈	≈		≈				<code>\gtcir</code>	greater-than with circle inside
U+02A7B		≈	≈		≈				<code>\ltquest</code>	less-than with question mark above
U+02A7C		≈	≈		≈				<code>\gtquest</code>	greater-than with question mark above
U+02A7D	≈	≈	≈		≈	≈	≈		<code>\leqslant<sup>(a)</sup></code>	less-than or slanted equal to
U+02A7E	≈	≈	≈		≈	≈	≈		<code>\geqslant<sup>(a)</sup></code>	greater-than or slanted equal to
U+02A7F		≈	≈		≈				<code>\lesdot</code>	less-than or slanted equal to with dot inside
U+02A80		≈	≈		≈				<code>\gesdot</code>	greater-than or slanted equal to with dot inside
U+02A81		≈	≈		≈				<code>\lesdoto</code>	less-than or slanted equal to with dot above



USV	M	X	S	C	A	P	D	E	Macro	Description
U+02A82		➤	➤		➤				<code>\gesdoto</code>	greater-than or slanted equal to with dot above
U+02A83		➤	➤		➤				<code>\lesdotor</code>	less-than or slanted equal to with dot above right
U+02A84		➤	➤		➤				<code>\gesdotol</code>	greater-than or slanted equal to with dot above left
U+02A85	➤	➤	➤		➤	➤	➤		<code>\lessapprox<sup>(a)</sup></code>	less-than or approximate
U+02A86	➤	➤	➤		➤	➤	➤		<code>\gtrapprox<sup>(a)</sup></code>	greater-than or approximate
U+02A87	➤	➤	➤		➤	➤	➤		<code>\lneq<sup>(a)</sup></code>	less-than and single-line not equal to
U+02A88	➤	➤	➤		➤	➤	➤		<code>\gneq<sup>(a)</sup></code>	greater-than and single-line not equal to
U+02A89	➤	➤	➤		➤	➤	➤		<code>\lnapprox<sup>(a)</sup></code>	less-than and not approximate
U+02A8A	➤	➤	➤		➤	➤	➤		<code>\gnapprox<sup>(a)</sup></code>	greater-than and not approximate
U+02A8B	➤	➤	➤		➤	➤	➤		<code>\lesseqgtr<sup>(a)</sup></code>	less-than above double-line equal above greater-than
U+02A8C	➤	➤	➤		➤	➤	➤		<code>\gtreqless<sup>(a)</sup></code>	greater-than above double-line equal above less-than
U+02A8D		➤	➤		➤				<code>\lsime</code>	less-than above similar or equal
U+02A8E		➤	➤		➤				<code>\gsime</code>	greater-than above similar or equal
U+02A8F		➤	➤		➤				<code>\lsimg</code>	less-than above similar above greater-than
U+02A90		➤	➤		➤				<code>\gsiml</code>	greater-than above similar above less-than
U+02A91		➤	➤		➤				<code>\lgE</code>	less-than above greater-than above double-line equal

USV	M	X	S	C	A	P	D	E	Macro	Description
U+02A92		≧	≦		≧				\glE	greater-than above less-than above double-line equal
U+02A93		≧	≦		≧				\lesges	less-than above slanted equal above greater-than above slanted equal
U+02A94		≧	≦		≧				\gesles	greater-than above slanted equal above less-than above slanted equal
U+02A95	≧	≧	≦		≧	≧	≧		\eqslantless <sup>(a)</sup>	slanted equal to or less-than
U+02A96	≧	≧	≦		≧	≧	≧		\eqslantgtr <sup>(a)</sup>	slanted equal to or greater-than
U+02A97		≧	≦		≧				\elsdot	slanted equal to or less-than with dot inside
U+02A98		≧	≦		≧				\egsdot	slanted equal to or greater-than with dot inside
U+02A99		≧	≦		≧				\eqqless	double-line equal to or less-than
U+02A9A		≧	≦		≧				\eqqgtr	double-line equal to or greater-than
U+02A9B		≧	≦		≧				\eqqslantless	double-line slanted equal to or less- than
U+02A9C		≧	≦		≧				\eqqslantgtr	double-line slanted equal to or greater- than
U+02A9D		≧	≦		≧				\simless	similar or less-than
U+02A9E		≧	≦		≧				\simgtr	similar or greater- than
U+02A9F		≧	≦		≧				\simlE	similar above less- than above equals sign
U+02AA0		≧	≦		≧				\simgE	similar above greater-than above equals sign
U+02AA1		≧	≦		≧				\Lt	double nested less-than

USV	M	X	S	C	A	P	D	E	Macro	Description
U+02AA2		➤	➤		➤				\Gt	double nested greater-than
U+02AA3		⚡	⚡		⚡				\partialmeetcontraction	double less-than with underbar
U+02AA4		⌘	⌘		⌘				\glj	greater-than overlapping less-than
U+02AA5		⌘	⌘		⌘				\gla	greater-than beside less-than
U+02AA6		▷	▷		▷				\ltcc	less-than closed by curve
U+02AA7		▷	▷		▷				\gtcc	greater-than closed by curve
U+02AA8		⋈	⋈		⋈				\lescc	less-than closed by curve above slanted equal
U+02AA9		⋈	⋈		⋈				\gescc	greater-than closed by curve above slanted equal
U+02AAA		⋈	⋈		⋈				\smt	smaller than
U+02AAB		➤	➤		➤				\lat	larger than
U+02AAC		⋈	⋈		⋈				\smte	smaller than or equal to
U+02AAD		⋈	⋈		⋈				\late	larger than or equal to
U+02AAE		⋈	⋈		⋈				\bumpeq	equals sign with bumpy above
U+02AAF	⋈	⋈	⋈		⋈	⋈	⋈		\preceq <sup>(p)</sup>	precedes above single-line equals sign
U+02AB0	⋈	⋈	⋈		⋈	⋈	⋈		\succeq <sup>(p)</sup>	succeeds above single-line equals sign
U+02AB1		⋈	⋈		⋈				\precneq	precedes above single-line not equal to
U+02AB2		⋈	⋈		⋈				\succneq	succeeds above single-line not equal to
U+02AB3		⋈	⋈		⋈				\preceqq	precedes above equals sign

USV	M	X	S	C	A	P	D	E	Macro	Description
U+02AB4		≧	≧		≧				<code>\succeqq</code>	succeeds above equals sign
U+02AB5		≧̸	≧̸		≧̸				<code>\precneqq<sup>(a)</sup></code>	precedes above not equal to
U+02AB6		≧̸	≧̸		≧̸				<code>\succneqq<sup>(a)</sup></code>	succeeds above not equal to
U+02AB7		≈	≈		≈				<code>\precapprox<sup>(a)</sup></code>	precedes above almost equal to
U+02AB8		≈	≈		≈				<code>\succapprox<sup>(a)</sup></code>	succeeds above almost equal to
U+02AB9		≉	≉		≉				<code>\precnapprox<sup>(a)</sup></code>	precedes above not almost equal to
U+02ABA		≉	≉		≉				<code>\succnapprox<sup>(a)</sup></code>	succeeds above not almost equal to
U+02ABB		≧̸̸	≧̸̸		≧̸̸				<code>\Prec</code>	double precedes
U+02ABC		≧̸̸	≧̸̸		≧̸̸				<code>\Succ</code>	double succeeds
U+02ABD		⊆̇	⊆̇		⊆̇				<code>\subsetdot</code>	subset with dot
U+02ABE		⊇̇	⊇̇		⊇̇				<code>\supsetdot</code>	superset with dot
U+02ABF		⊈	⊈		⊈				<code>\subsetplus</code>	subset with plus sign below
U+02AC0		⊉	⊉		⊉				<code>\supsetplus</code>	superset with plus sign below
U+02AC1		⊈	⊈		⊈				<code>\submult</code>	subset with multiplication sign below
U+02AC2		⊉	⊉		⊉				<code>\supmult</code>	superset with multiplication sign below
U+02AC3		⊆̇̇	⊆̇̇		⊆̇̇				<code>\subedot</code>	subset of or equal to with dot above
U+02AC4		⊇̇̇	⊇̇̇		⊇̇̇				<code>\supedot</code>	superset of or equal to with dot above
U+02AC5		⊈̇	⊈̇		⊈̇				<code>\subseteqq<sup>(a)</sup></code>	subset of above equals sign
U+02AC6		⊉̇	⊉̇		⊉̇				<code>\supseteqq<sup>(a)</sup></code>	superset of above equals sign













USV	M	X	S	C	A	P	D	E	Macro	Description
U+02AC7		𐀇	𐀈		𐀉				<code>\subsim</code>	subset of above tilde operator
U+02AC8		𐀊	𐀋		𐀌				<code>\supsim</code>	superset of above tilde operator
U+02AC9		𐀍	𐀎		𐀏				<code>\subsetapprox</code>	subset of above almost equal to
U+02ACA		𐀐	𐀑		𐀒				<code>\supsetapprox</code>	superset of above almost equal to
U+02ACB		𐀓	𐀔		𐀕				<code>\subsetneqq<sup>(a)</sup></code>	subset of above not equal to
U+02ACC		𐀗	𐀘		𐀙				<code>\supsetneqq<sup>(a)</sup></code>	superset of above not equal to
U+02ACD		𐀛	𐀜		𐀝				<code>\lsqhook</code>	square left open box operator
U+02ACE		𐀟	𐀠		𐀡				<code>\rsqhook</code>	square right open box operator
U+02ACF		𐀣	𐀤		𐀥				<code>\csub</code>	closed subset
U+02AD0		𐀨	𐀩		𐀪				<code>\csup</code>	closed superset
U+02AD1		𐀬	𐀭		𐀮				<code>\csube</code>	closed subset or equal to
U+02AD2		𐀲	𐀳		𐀴				<code>\csupe</code>	closed superset or equal to
U+02AD3		𐀷	𐀸		𐀹				<code>\subsup</code>	subset above superset
U+02AD4		𐀻	𐀼		𐀽				<code>\supsub</code>	superset above subset
U+02AD5		𐀿	𐁀		𐁁				<code>\subsub</code>	subset above subset
U+02AD6		𐁅	𐁆		𐁇				<code>\supsup</code>	superset above superset
U+02AD7		𐁊	𐁋		𐁌				<code>\suphsub</code>	superset beside subset
U+02AD8		𐁏	𐁐		𐁑				<code>\supdsub</code>	superset beside and joined by dash with subset
U+02AD9		𐁕	𐁖		𐁗				<code>\forkv</code>	element of opening downwards

USV	M	X	S	C	A	P	D	E	Macro	Description
U+02ADA		𐌆	𐌇		𐌈				<code>\topfork</code>	pitchfork with tee top
U+02ADB		𐌉	𐌊		𐌋				<code>\mlcp</code>	transversal intersection
U+02ADC		𐌌	𐌍		𐌎				<code>\forks</code>	forking
U+02ADD		𐌏	𐌐		𐌑				<code>\forksnot</code>	nonforking
U+02ADE		𐌔	𐌕		𐌖				<code>\shortlefttack</code>	short left tack
U+02ADF		𐌗	𐌘		𐌙				<code>\shortdowntack</code>	short down tack
U+02AE0		𐌛	𐌜		𐌝				<code>\shortuptack</code>	short up tack
U+02AE2		𐌟	𐌠		𐌡				<code>\vDdash</code>	vertical bar triple right turnstile
U+02AE3		𐌣	𐌤		𐌥				<code>\dashV</code>	double vertical bar left turnstile
U+02AE4		𐌧	𐌨		𐌩				<code>\Dashv</code>	vertical bar double left turnstile
U+02AE5		𐌫	𐌬		𐌭				<code>\DashV</code>	double vertical bar double left turnstile
U+02AE6		𐌱	𐌲		𐌳				<code>\varVdash</code>	long dash from left member of double vertical
U+02AE7		𐌷	𐌸		𐌹				<code>\Barv</code>	short down tack with overbar
U+02AE8		𐌻	𐌼		𐌽				<code>\vBar</code>	short up tack with underbar
U+02AE9		𐌿	𐍀		𐍁				<code>\vBarv</code>	short up tack above short down tack
U+02AEA		𐍅	𐍆		𐍇				<code>\barV</code>	double down tack
U+02AEB		𐍊	𐍋		𐍌				<code>\Vbar</code>	double up tack
U+02AEC		𐍏	𐍐		𐍑				<code>\Not</code>	double stroke not sign
U+02AED		𐍕	𐍖		𐍗				<code>\bNot</code>	reversed double stroke not sign
U+02AEE		𐍛	𐍜		𐍝				<code>\revnmid</code>	does not divide with reversed negation slash

USV	M	X	S	C	A	P	D	E	Macro	Description
U+02AEF									<code>\ciramid</code>	vertical line with circle above
U+02AF0									<code>\midcir</code>	vertical line with circle below
U+02AF2									<code>\nhpar</code>	parallel with horizontal stroke
U+02AF3									<code>\parsim</code>	parallel with tilde operator
U+02AF7									<code>\lllnest</code>	stacked very much less-than
U+02AF8									<code>\gggnest</code>	stacked very much greater-than
U+02AF9									<code>\leqqslant</code>	double-line slanted less-than or equal to
U+02AFA									<code>\geqqslant</code>	double-line slanted greater-than or equal to
U+02B30									<code>\circleonleftarrow</code>	left arrow with small circle
U+02B31									<code>\leftthreearrows</code>	three leftwards arrows
U+02B32									<code>\leftarrowonoplus</code>	left arrow with circled plus
U+02B33									<code>\longleftsquigarrow</code>	long leftwards squiggle arrow
U+02B34									<code>\nvtwoheadleftarrow</code>	leftwards two-headed arrow with vertical stroke
U+02B35									<code>\nVtwoheadleftarrow</code>	leftwards two-headed arrow with double vertical stroke
U+02B36									<code>\twoheadmapsfrom</code>	leftwards two-headed arrow from bar
U+02B37									<code>\twoheadleftdbkarrow</code>	leftwards two-headed triple-dash arrow
U+02B38									<code>\leftdotarrow</code>	leftwards arrow with dotted stem

USV	M	X	S	C	A	P	D	E	Macro	Description
U+02B39		↵	↵		↵				<code>\nvleftarrowtail</code>	leftwards arrow with tail with vertical stroke
U+02B3A		↵	↵		↵				<code>\nVleftarrowtail</code>	leftwards arrow with tail with double vertical stroke
U+02B3B		↵	↵		↵				<code>\twoheadleftarrowtail</code>	leftwards two-headed arrow with tail
U+02B3C		↵	↵		↵				<code>\nvtwoheadleftarrowtail</code>	leftwards two-headed arrow with tail with vertical stroke
U+02B3D		↵	↵		↵				<code>\nVtwoheadleftarrowtail</code>	leftwards two-headed arrow with tail with double vertical stroke
U+02B3E		↵	↵		↵				<code>\leftarrowx</code>	leftwards arrow through x
U+02B3F		↵	↵		↵				<code>\leftcurvedarrow</code>	wave arrow pointing directly left
U+02B40		↵	↵		↵				<code>\equalleftarrow</code>	equals sign above leftwards arrow
U+02B41		↵	↵		↵				<code>\bsimilarleftarrow</code>	reverse tilde operator above leftwards arrow
U+02B42		↵	↵		↵				<code>\leftarrowbackapprox</code>	leftwards arrow above reverse almost equal to
U+02B43		➤	➤		➤				<code>\rightarrowgtr</code>	rightwards arrow through greater-than
U+02B44		➤	➤		➤				<code>\rightarrowsupset</code>	rightwards arrow through subset
U+02B45		↪	↪		↪				<code>\LLeftarrow</code>	leftwards quadruple arrow
U+02B46		➡	➡		➡				<code>\RRrightarrow</code>	rightwards quadruple arrow
U+02B47		➡	➡		➡				<code>\bsimilarrightarrow</code>	reverse tilde operator above rightwards arrow
U+02B48		➡	➡		➡				<code>\rightarrowbackapprox</code>	rightwards arrow above reverse almost equal to



USV	M	X	S	C	A	P	D	E	Macro	Description
U+02B49									<code>\similarleftarrow</code>	tilde operator above leftwards arrow
U+02B4A									<code>\leftarrowapprox</code>	leftwards arrow above almost equal to
U+02B4B									<code>\leftarrowbsimilar</code>	leftwards arrow above reverse tilde operator
U+02B4C									<code>\rightarrowbsimilar</code>	rightwards arrow above reverse tilde operator

## 13 Alphabetical symbols, `\mathalpha`

### 13.1 Normal weight

#### 13.1.1 Upright Greek, uppercase

USV	M	X	S	C	A	P	D	E	Macro	Description
U+00391	Α	Χ	Σ	Ϛ	Α	Ρ	Δ	Ε	<code>\mupAlpha</code>	capital alpha, greek
U+00392	Β	Ξ	Β	Ϛ	Β	Β	Β	Β	<code>\mupBeta</code>	capital beta, greek
U+00393	Γ	Γ	Γ	Γ	Γ	Γ	Γ	Γ	<code>\mupGamma</code>	capital gamma, greek
U+00394	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	<code>\mupDelta</code>	capital delta, greek
U+00395	Ε	Ε	Ε	Ε	Ε	Ε	Ε	Ε	<code>\mupEpsilon</code>	capital epsilon, greek
U+00396	Ζ	Ζ	Ζ	Ζ	Ζ	Ζ	Ζ	Ζ	<code>\mupZeta</code>	capital zeta, greek
U+00397	Η	Η	Η	Η	Η	Η	Η	Η	<code>\mupEta</code>	capital eta, greek
U+00398	Θ	Θ	Θ	Θ	Θ	Θ	Θ	Θ	<code>\mupTheta</code>	capital theta, greek
U+00399	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	<code>\mupIota</code>	capital iota, greek
U+0039A	Κ	Κ	Κ	Κ	Κ	Κ	Κ	Κ	<code>\mupKappa</code>	capital kappa, greek
U+0039B	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ	<code>\mupLambda</code>	capital lambda, greek
U+0039C	Μ	Μ	Μ	Μ	Μ	Μ	Μ	Μ	<code>\mupMu</code>	capital mu, greek
U+0039D	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	<code>\mupNu</code>	capital nu, greek
U+0039E	Ξ	Ξ	Ξ	Ξ	Ξ	Ξ	Ξ	Ξ	<code>\mupXi</code>	capital xi, greek
U+0039F	Ο	Ο	Ο	Ο	Ο	Ο	Ο	Ο	<code>\mupOmicron</code>	capital omicron, greek
U+003A0	Π	Π	Π	Π	Π	Π	Π	Π	<code>\mupPi</code>	capital pi, greek
U+003A1	Ρ	Ρ	Ρ	Ρ	Ρ	Ρ	Ρ	Ρ	<code>\mupRho</code>	capital rho, greek
U+003A3	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	<code>\mupSigma</code>	capital sigma, greek
U+003A4	Τ	Τ	Τ	Τ	Τ	Τ	Τ	Τ	<code>\mupTau</code>	capital tau, greek
U+003A5	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	<code>\mupUpsilon</code>	capital upsilon, greek
U+003A6	Φ	Φ	Φ	Φ	Φ	Φ	Φ	Φ	<code>\mupPhi</code>	capital phi, greek
U+003A7	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	<code>\mupChi</code>	capital chi, greek

USV	M	X	S	C	A	P	D	E	Macro	Description
U+003A8	Ψ	Ψ	Ψ	Ψ	Ψ	Ψ	Ψ	Ψ	\mupPsi	capital psi, greek
U+003A9	Ω	Ω	Ω	Ω	Ω	Ω	Ω	Ω	\mupOmega	capital omega, greek

### 13.1.2 Upright Greek, lowercase

USV	M	X	S	C	A	P	D	E	Macro	Description
U+003B1	α	α	α	α	α	α	α	α	\mupalpha	small alpha, greek
U+003B2	β	β	β	β	β	β	β	β	\mupbeta	small beta, greek
U+003B3	γ	γ	γ	γ	γ	γ	γ	γ	\mupgamma	small gamma, greek
U+003B4	δ	δ	δ	δ	δ	δ	δ	δ	\mupdelta	small delta, greek
U+003B5	ε	ε	ε	ε	ε	ε	ε	ε	\mupvarepsilon	rounded small varepsilon , greek
U+003B6	ζ	ζ	ζ	ζ	ζ	ζ	ζ	ζ	\mupzeta	small zeta, greek
U+003B7	η	η	η	η	η	η	η	η	\mupeta	small eta, greek
U+003B8	θ	θ	θ	θ	θ	θ	θ	θ	\muptheta	straight theta, small theta, greek
U+003B9	ι	ι	ι	ι	ι	ι	ι	ι	\mupiota	small iota, greek
U+003BA	κ	κ	κ	κ	κ	κ	κ	κ	\mupkappa	small kappa, greek
U+003BB	λ	λ	λ	λ	λ	λ	λ	λ	\muplambda	small lambda, greek
U+003BC	μ	μ	μ	μ	μ	μ	μ	μ	\mupmu	small mu, greek
U+003BD	ν	ν	ν	ν	ν	ν	ν	ν	\mupnu	small nu, greek
U+003BE	ξ	ξ	ξ	ξ	ξ	ξ	ξ	ξ	\mupxi	small xi, greek
U+003BF	ο	ο	ο	ο	ο	ο	ο	ο	\mupomicron	small omicron, greek
U+003C0	π	π	π	π	π	π	π	π	\muppi	small pi, greek
U+003C1	ρ	ρ	ρ	ρ	ρ	ρ	ρ	ρ	\muprho	small rho, greek
U+003C2	ς	ς	ς	ς	ς	ς	ς		\mupvarsigma	terminal sigma, greek
U+003C3	σ	σ	σ	σ	σ	σ	σ	σ	\mupsigma	small sigma, greek

USV	M	X	S	C	A	P	D	E	Macro	Description
U+003C4	τ	τ	τ	τ	τ	τ	τ	τ	\muptau	small tau, greek
U+003C5	υ	υ	υ	υ	υ	υ	υ	υ	\mupupsilon	small upsilon, greek
U+003C6	φ	φ	φ	φ	φ	φ	φ	φ	\mupvarphi	curly or open small phi, greek
U+003C7	χ	χ	χ	χ	χ	χ	χ	χ	\mupchi	small chi, greek
U+003C8	ψ	ψ	ψ	ψ	ψ	ψ	ψ	ψ	\muppsi	small psi, greek
U+003C9	ω	ω	ω	ω	ω	ω	ω	ω	\mupomega	small omega, greek
U+003D1	ϑ	ϑ	ϑ	ϑ	ϑ	ϑ	ϑ	ϑ	\mupvarthetaeta	/varthetaeta - curly or open theta
U+003D5	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	\mupphi	/straightphi - small phi, greek
U+003D6	ϖ	ϖ	ϖ	ϖ	ϖ	ϖ	ϖ	ϖ	\mupvarpi	rounded small pi (pomega), greek
U+003DC		Ϛ	Ϛ	Ϛ	Ϛ				\upDigamma	capital digamma
U+003DD		ϛ	ϛ	ϛ	ϛ				\updigamma	old greek small letter digamma
U+003F0	ϣ	ϣ	ϣ	ϣ	ϣ	ϣ	ϣ		\mupvarkappa	rounded small kappa, greek
U+003F1	ϱ	ϱ	ϱ	ϱ	ϱ	ϱ	ϱ		\mupvarrho	rounded small rho, greek
U+003F4	Θ	Θ	Θ	Θ	Θ	Θ	Θ		\mupvarTheta	greek capital theta symbol
U+003F5	ϵ	ϵ	ϵ	ϵ	ϵ	ϵ	ϵ	ϵ	\mupepsilon	greek lunate varepsilon symbol

### 13.1.3 Italic, Latin, uppercase

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D434	<i>A</i>	<i>A</i>	<i>A</i>	<i>A</i>	<i>A</i>	<i>A</i>	<i>A</i>		\mitA	mathematical italic capital a
U+1D435	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>		\mitB	mathematical italic capital b
U+1D436	<i>C</i>	<i>C</i>	<i>C</i>	<i>C</i>	<i>C</i>	<i>C</i>	<i>C</i>		\mitC	mathematical italic capital c
U+1D437	<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>		\mitD	mathematical italic capital d
U+1D438	<i>E</i>	<i>E</i>	<i>E</i>	<i>E</i>	<i>E</i>	<i>E</i>	<i>E</i>		\mitE	mathematical italic capital e
U+1D439	<i>F</i>	<i>F</i>	<i>F</i>	<i>F</i>	<i>F</i>	<i>F</i>	<i>F</i>		\mitF	mathematical italic capital f

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D43A	<i>G</i>	<i>G</i>	<i>G</i>	<i>G</i>	<i>G</i>	<i>G</i>	<i>G</i>		\mitG	mathematical italic capital g
U+1D43B	<i>H</i>	<i>H</i>	<i>H</i>	<i>H</i>	<i>H</i>	<i>H</i>	<i>H</i>		\mitH	mathematical italic capital h
U+1D43C	<i>I</i>	<i>I</i>	<i>I</i>	<i>I</i>	<i>I</i>	<i>I</i>	<i>I</i>		\mitI	mathematical italic capital i
U+1D43D	<i>J</i>	<i>J</i>	<i>J</i>	<i>J</i>	<i>J</i>	<i>J</i>	<i>J</i>		\mitJ	mathematical italic capital j
U+1D43E	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>		\mitK	mathematical italic capital k
U+1D43F	<i>L</i>	<i>L</i>	<i>L</i>	<i>L</i>	<i>L</i>	<i>L</i>	<i>L</i>		\mitL	mathematical italic capital l
U+1D440	<i>M</i>	<i>M</i>	<i>M</i>	<i>M</i>	<i>M</i>	<i>M</i>	<i>M</i>		\mitM	mathematical italic capital m
U+1D441	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>		\mitN	mathematical italic capital n
U+1D442	<i>O</i>	<i>O</i>	<i>O</i>	<i>O</i>	<i>O</i>	<i>O</i>	<i>O</i>		\mitO	mathematical italic capital o
U+1D443	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>		\mitP	mathematical italic capital p
U+1D444	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>		\mitQ	mathematical italic capital q
U+1D445	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>		\mitR	mathematical italic capital r
U+1D446	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>		\mitS	mathematical italic capital s
U+1D447	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>		\mitT	mathematical italic capital t
U+1D448	<i>U</i>	<i>U</i>	<i>U</i>	<i>U</i>	<i>U</i>	<i>U</i>	<i>U</i>		\mitU	mathematical italic capital u
U+1D449	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>		\mitV	mathematical italic capital v
U+1D44A	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>		\mitW	mathematical italic capital w
U+1D44B	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>		\mitX	mathematical italic capital x
U+1D44C	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>		\mitY	mathematical italic capital y
U+1D44D	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>		\mitZ	mathematical italic capital z

#### 13.1.4 Italic, Latin, lowercase

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D44E	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>		\mita	mathematical italic small a

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D44F	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>		\mitb	mathematical italic small b
U+1D450	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>		\mitc	mathematical italic small c
U+1D451	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>		\mitd	mathematical italic small d
U+1D452	<i>e</i>	<i>e</i>	<i>e</i>	<i>e</i>	<i>e</i>	<i>e</i>	<i>e</i>		\mite	mathematical italic small e
U+1D453	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>		\mitf	mathematical italic small f
U+1D454	<i>g</i>	<i>g</i>	<i>g</i>	<i>g</i>	<i>g</i>	<i>g</i>	<i>g</i>		\mitg	mathematical italic small g
U+1D456	<i>i</i>	<i>i</i>	<i>i</i>	<i>i</i>	<i>i</i>	<i>i</i>	<i>i</i>		\miti	mathematical italic small i
U+1D457	<i>j</i>	<i>j</i>	<i>j</i>	<i>j</i>	<i>j</i>	<i>j</i>	<i>j</i>		\mitj	mathematical italic small j
U+1D458	<i>k</i>	<i>k</i>	<i>k</i>	<i>k</i>	<i>k</i>	<i>k</i>	<i>k</i>		\mitk	mathematical italic small k
U+1D459	<i>l</i>	<i>l</i>	<i>l</i>	<i>l</i>	<i>l</i>	<i>l</i>	<i>l</i>		\mitl	mathematical italic small l
U+1D45A	<i>m</i>	<i>m</i>	<i>m</i>	<i>m</i>	<i>m</i>	<i>m</i>	<i>m</i>		\mitm	mathematical italic small m
U+1D45B	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>		\mitn	mathematical italic small n
U+1D45C	<i>o</i>	<i>o</i>	<i>o</i>	<i>o</i>	<i>o</i>	<i>o</i>	<i>o</i>		\mito	mathematical italic small o
U+1D45D	<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>		\mitp	mathematical italic small p
U+1D45E	<i>q</i>	<i>q</i>	<i>q</i>	<i>q</i>	<i>q</i>	<i>q</i>	<i>q</i>		\mitq	mathematical italic small q
U+1D45F	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>		\mitr	mathematical italic small r
U+1D460	<i>s</i>	<i>s</i>	<i>s</i>	<i>s</i>	<i>s</i>	<i>s</i>	<i>s</i>		\mits	mathematical italic small s
U+1D461	<i>t</i>	<i>t</i>	<i>t</i>	<i>t</i>	<i>t</i>	<i>t</i>	<i>t</i>		\mitt	mathematical italic small t
U+1D462	<i>u</i>	<i>u</i>	<i>u</i>	<i>u</i>	<i>u</i>	<i>u</i>	<i>u</i>		\mitu	mathematical italic small u
U+1D463	<i>v</i>	<i>v</i>	<i>v</i>	<i>v</i>	<i>v</i>	<i>v</i>	<i>v</i>		\mitv	mathematical italic small v
U+1D464	<i>w</i>	<i>w</i>	<i>w</i>	<i>w</i>	<i>w</i>	<i>w</i>	<i>w</i>		\mitw	mathematical italic small w
U+1D465	<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>		\mitx	mathematical italic small x
U+1D466	<i>y</i>	<i>y</i>	<i>y</i>	<i>y</i>	<i>y</i>	<i>y</i>	<i>y</i>		\mity	mathematical italic small y
U+1D467	<i>z</i>	<i>z</i>	<i>z</i>	<i>z</i>	<i>z</i>	<i>z</i>	<i>z</i>		\mitz	mathematical italic small z

### 13.1.5 Italic Greek, uppercase

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D6E2	<i>A</i>	<i>A</i>	<i>A</i>	<i>A</i>	<i>A</i>	<i>A</i>	<i>A</i>		<code>\mitAlpha</code>	mathematical italic capital alpha
U+1D6E3	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>		<code>\mitBeta</code>	mathematical italic capital beta
U+1D6E4	<i>Γ</i>	<i>Γ</i>	<i>Γ</i>	<i>Γ</i>	<i>Γ</i>	<i>Γ</i>	<i>Γ</i>		<code>\mitGamma</code>	mathematical italic capital gamma
U+1D6E5	<i>Δ</i>	<i>Δ</i>	<i>Δ</i>	<i>Δ</i>	<i>Δ</i>	<i>Δ</i>	<i>Δ</i>		<code>\mitDelta</code>	mathematical italic capital delta
U+1D6E6	<i>E</i>	<i>E</i>	<i>E</i>	<i>E</i>	<i>E</i>	<i>E</i>	<i>E</i>		<code>\mitEpsilon</code>	mathematical italic capital epsilon
U+1D6E7	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>		<code>\mitZeta</code>	mathematical italic capital zeta
U+1D6E8	<i>H</i>	<i>H</i>	<i>H</i>	<i>H</i>	<i>H</i>	<i>H</i>	<i>H</i>		<code>\mitEta</code>	mathematical italic capital eta
U+1D6E9	<i>Θ</i>	<i>Θ</i>	<i>Θ</i>	<i>Θ</i>	<i>Θ</i>	<i>Θ</i>	<i>Θ</i>		<code>\mitTheta</code>	mathematical italic capital theta
U+1D6EA	<i>I</i>	<i>I</i>	<i>I</i>	<i>I</i>	<i>I</i>	<i>I</i>	<i>I</i>		<code>\mitIota</code>	mathematical italic capital iota
U+1D6EB	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>		<code>\mitKappa</code>	mathematical italic capital kappa
U+1D6EC	<i>Λ</i>	<i>Λ</i>	<i>Λ</i>	<i>Λ</i>	<i>Λ</i>	<i>Λ</i>	<i>Λ</i>		<code>\mitLambda</code>	mathematical italic capital lambda
U+1D6ED	<i>M</i>	<i>M</i>	<i>M</i>	<i>M</i>	<i>M</i>	<i>M</i>	<i>M</i>		<code>\mitMu</code>	mathematical italic capital mu
U+1D6EE	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>		<code>\mitNu</code>	mathematical italic capital nu
U+1D6EF	<i>Ξ</i>	<i>Ξ</i>	<i>Ξ</i>	<i>Ξ</i>	<i>Ξ</i>	<i>Ξ</i>	<i>Ξ</i>		<code>\mitXi</code>	mathematical italic capital xi
U+1D6F0	<i>O</i>	<i>O</i>	<i>O</i>	<i>O</i>	<i>O</i>	<i>O</i>	<i>O</i>		<code>\mitOmicron</code>	mathematical italic capital omicron
U+1D6F1	<i>Π</i>	<i>Π</i>	<i>Π</i>	<i>Π</i>	<i>Π</i>	<i>Π</i>	<i>Π</i>		<code>\mitPi</code>	mathematical italic capital pi
U+1D6F2	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>		<code>\mitRho</code>	mathematical italic capital rho
U+1D6F3	<i>Θ</i>	<i>Θ</i>	<i>Θ</i>	<i>Θ</i>	<i>Θ</i>	<i>Θ</i>	<i>Θ</i>		<code>\mitvarTheta</code>	mathematical italic capital theta symbol
U+1D6F4	<i>Σ</i>	<i>Σ</i>	<i>Σ</i>	<i>Σ</i>	<i>Σ</i>	<i>Σ</i>	<i>Σ</i>		<code>\mitSigma</code>	mathematical italic capital sigma
U+1D6F5	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>		<code>\mitTau</code>	mathematical italic capital tau
U+1D6F6	<i>Υ</i>	<i>Υ</i>	<i>Υ</i>	<i>Υ</i>	<i>Υ</i>	<i>Υ</i>	<i>Υ</i>		<code>\mitUpsilon</code>	mathematical italic capital upsilon
U+1D6F7	<i>Φ</i>	<i>Φ</i>	<i>Φ</i>	<i>Φ</i>	<i>Φ</i>	<i>Φ</i>	<i>Φ</i>		<code>\mitPhi</code>	mathematical italic capital phi
U+1D6F8	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>		<code>\mitChi</code>	mathematical italic capital chi

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D6F9	$\Psi$	$\Psi$	$\Psi$	$\Psi$	$\Psi$	$\Psi$	$\Psi$		<code>\mitPsi</code>	mathematical italic capital psi
U+1D6FA	$\Omega$	$\Omega$	$\Omega$	$\Omega$	$\Omega$	$\Omega$	$\Omega$		<code>\mitOmega</code>	mathematical italic capital omega

### 13.1.6 Italic Greek, lowercase

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D6FC	$\alpha$	$\alpha$	$\alpha$	$\alpha$	$\alpha$	$\alpha$	$\alpha$		<code>\mitalpha</code>	mathematical italic small alpha
U+1D6FD	$\beta$	$\beta$	$\beta$	$\beta$	$\beta$	$\beta$	$\beta$		<code>\mitbeta</code>	mathematical italic small beta
U+1D6FE	$\gamma$	$\gamma$	$\gamma$	$\gamma$	$\gamma$	$\gamma$	$\gamma$		<code>\mitgamma</code>	mathematical italic small gamma
U+1D6FF	$\delta$	$\delta$	$\delta$	$\delta$	$\delta$	$\delta$	$\delta$		<code>\mitdelta</code>	mathematical italic small delta
U+1D700	$\epsilon$	$\epsilon$	$\epsilon$	$\epsilon$	$\epsilon$	$\epsilon$	$\epsilon$		<code>\mitvarepsilon</code>	mathematical italic small varepsilon
U+1D701	$\zeta$	$\zeta$	$\zeta$	$\zeta$	$\zeta$	$\zeta$	$\zeta$		<code>\mitzeta</code>	mathematical italic small zeta
U+1D702	$\eta$	$\eta$	$\eta$	$\eta$	$\eta$	$\eta$	$\eta$		<code>\miteta</code>	mathematical italic small eta
U+1D703	$\theta$	$\theta$	$\theta$	$\theta$	$\theta$	$\theta$	$\theta$		<code>\mittheta</code>	mathematical italic small theta
U+1D704	$\iota$	$\iota$	$\iota$	$\iota$	$\iota$	$\iota$	$\iota$		<code>\mitiota</code>	mathematical italic small iota
U+1D705	$\kappa$	$\kappa$	$\kappa$	$\kappa$	$\kappa$	$\kappa$	$\kappa$		<code>\mitkappa</code>	mathematical italic small kappa
U+1D706	$\lambda$	$\lambda$	$\lambda$	$\lambda$	$\lambda$	$\lambda$	$\lambda$		<code>\mitlambda</code>	mathematical italic small lambda
U+1D707	$\mu$	$\mu$	$\mu$	$\mu$	$\mu$	$\mu$	$\mu$		<code>\mitmu</code>	mathematical italic small mu
U+1D708	$\nu$	$\nu$	$\nu$	$\nu$	$\nu$	$\nu$	$\nu$		<code>\mitnu</code>	mathematical italic small nu
U+1D709	$\xi$	$\xi$	$\xi$	$\xi$	$\xi$	$\xi$	$\xi$		<code>\mitxi</code>	mathematical italic small xi
U+1D70A	$\omicron$	$\omicron$	$\omicron$	$\omicron$	$\omicron$	$\omicron$	$\omicron$		<code>\mitomicron</code>	mathematical italic small omicron
U+1D70B	$\pi$	$\pi$	$\pi$	$\pi$	$\pi$	$\pi$	$\pi$		<code>\mitpi</code>	mathematical italic small pi
U+1D70C	$\rho$	$\rho$	$\rho$	$\rho$	$\rho$	$\rho$	$\rho$		<code>\mitrho</code>	mathematical italic small rho
U+1D70D	$\varsigma$	$\varsigma$	$\varsigma$	$\varsigma$	$\varsigma$	$\varsigma$	$\varsigma$		<code>\mitvarsigma</code>	mathematical italic small final sigma
U+1D70E	$\sigma$	$\sigma$	$\sigma$	$\sigma$	$\sigma$	$\sigma$	$\sigma$		<code>\mitsigma</code>	mathematical italic small sigma



USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D70F	$\tau$	$\tau$	$\tau$	$\tau$	$\tau$	$\tau$	$\tau$		<code>\mittau</code>	mathematical italic small tau
U+1D710	$\upsilon$	$\upsilon$	$\upsilon$	$\upsilon$	$\upsilon$	$\upsilon$	$\upsilon$		<code>\mitupsilon</code>	mathematical italic small upsilon
U+1D711	$\varphi$	$\varphi$	$\varphi$	$\varphi$	$\varphi$	$\varphi$	$\varphi$		<code>\mitvarphi</code>	mathematical italic small phi
U+1D712	$\chi$	$\chi$	$\chi$	$\chi$	$\chi$	$\chi$	$\chi$		<code>\mitchi</code>	mathematical italic small chi
U+1D713	$\psi$	$\psi$	$\psi$	$\psi$	$\psi$	$\psi$	$\psi$		<code>\mitpsi</code>	mathematical italic small psi
U+1D714	$\omega$	$\omega$	$\omega$	$\omega$	$\omega$	$\omega$	$\omega$		<code>\mitomega</code>	mathematical italic small omega
U+1D715	$\partial$	$\partial$	$\partial$	$\partial$	$\partial$	$\partial$	$\partial$		<code>\mitpartial</code>	mathematical italic partial differential
U+1D716	$\epsilon$	$\epsilon$	$\epsilon$	$\epsilon$	$\epsilon$	$\epsilon$	$\epsilon$		<code>\mitepsilon</code>	mathematical italic varepsilon symbol
U+1D717	$\vartheta$	$\vartheta$	$\vartheta$	$\vartheta$	$\vartheta$	$\vartheta$	$\vartheta$		<code>\mitvartheta</code>	mathematical italic theta symbol
U+1D718	$\kappa$	$\kappa$	$\kappa$	$\kappa$	$\kappa$	$\kappa$	$\kappa$		<code>\mitvarkappa</code>	mathematical italic kappa symbol
U+1D719	$\phi$	$\phi$	$\phi$	$\phi$	$\phi$	$\phi$	$\phi$		<code>\mitphi</code>	mathematical italic phi symbol
U+1D71A	$\varrho$	$\varrho$	$\varrho$	$\varrho$	$\varrho$	$\varrho$	$\varrho$		<code>\mitvarrho</code>	mathematical italic rho symbol
U+1D71B	$\varpi$	$\varpi$	$\varpi$	$\varpi$	$\varpi$	$\varpi$	$\varpi$		<code>\mitvarpi</code>	mathematical italic pi symbol

### 13.1.7 Script, Latin, uppercase

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D49C	$\mathcal{A}$	$\mathcal{A}$	$\mathcal{A}$	$\mathcal{A}$	$\mathcal{A}$	$\mathcal{A}$	$\mathcal{A}$	$\mathcal{A}$	<code>\mscrA</code>	mathematical script capital a
U+1D49E	$\mathcal{C}$	$\mathcal{C}$	$\mathcal{C}$	$\mathcal{C}$	$\mathcal{C}$	$\mathcal{C}$	$\mathcal{C}$	$\mathcal{C}$	<code>\mscrC</code>	mathematical script capital c
U+1D49F	$\mathcal{D}$	$\mathcal{D}$	$\mathcal{D}$	$\mathcal{D}$	$\mathcal{D}$	$\mathcal{D}$	$\mathcal{D}$	$\mathcal{D}$	<code>\mscrD</code>	mathematical script capital d
U+1D4A2	$\mathcal{G}$	$\mathcal{G}$	$\mathcal{G}$	$\mathcal{G}$	$\mathcal{G}$	$\mathcal{G}$	$\mathcal{G}$	$\mathcal{G}$	<code>\mscrG</code>	mathematical script capital g
U+1D4A5	$\mathcal{J}$	$\mathcal{J}$	$\mathcal{J}$	$\mathcal{J}$	$\mathcal{J}$	$\mathcal{J}$	$\mathcal{J}$	$\mathcal{J}$	<code>\mscrJ</code>	mathematical script capital j
U+1D4A6	$\mathcal{K}$	$\mathcal{K}$	$\mathcal{K}$	$\mathcal{K}$	$\mathcal{K}$	$\mathcal{K}$	$\mathcal{K}$	$\mathcal{K}$	<code>\mscrK</code>	mathematical script capital k
U+1D4A9	$\mathcal{N}$	$\mathcal{N}$	$\mathcal{N}$	$\mathcal{N}$	$\mathcal{N}$	$\mathcal{N}$	$\mathcal{N}$	$\mathcal{N}$	<code>\mscrN</code>	mathematical script capital n
U+1D4AA	$\mathcal{O}$	$\mathcal{O}$	$\mathcal{O}$	$\mathcal{O}$	$\mathcal{O}$	$\mathcal{O}$	$\mathcal{O}$	$\mathcal{O}$	<code>\mscrO</code>	mathematical script capital o

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D4AB	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<code>\mscrP</code>	mathematical script capital p
U+1D4AC	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>	<code>\mscrQ</code>	mathematical script capital q
U+1D4AE	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<code>\mscrS</code>	mathematical script capital s
U+1D4AF	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>	<code>\mscrT</code>	mathematical script capital t
U+1D4B0	<i>U</i>	<i>U</i>	<i>U</i>	<i>U</i>	<i>U</i>	<i>U</i>	<i>U</i>	<i>U</i>	<code>\mscrU</code>	mathematical script capital u
U+1D4B1	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	<code>\mscrV</code>	mathematical script capital v
U+1D4B2	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<code>\mscrW</code>	mathematical script capital w
U+1D4B3	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<code>\mscrX</code>	mathematical script capital x
U+1D4B4	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<code>\mscrY</code>	mathematical script capital y
U+1D4B5	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	<code>\mscrZ</code>	mathematical script capital z

### 13.1.8 Script, Latin, lowercase

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D4B6	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>		<code>\mscra</code>	mathematical script small a
U+1D4B7	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>		<code>\mscrb</code>	mathematical script small b
U+1D4B8	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>		<code>\mscrc</code>	mathematical script small c
U+1D4B9	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>		<code>\mscrd</code>	mathematical script small d
U+1D4BB	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>		<code>\mscrf</code>	mathematical script small f
U+1D4BD	<i>h</i>	<i>h</i>	<i>h</i>	<i>h</i>	<i>h</i>	<i>h</i>	<i>h</i>		<code>\mscrh</code>	mathematical script small h
U+1D4BE	<i>i</i>	<i>i</i>	<i>i</i>	<i>i</i>	<i>i</i>	<i>i</i>	<i>i</i>		<code>\mscri</code>	mathematical script small i
U+1D4BF	<i>j</i>	<i>j</i>	<i>j</i>	<i>j</i>	<i>j</i>	<i>j</i>	<i>j</i>		<code>\mscrj</code>	mathematical script small j
U+1D4C0	<i>k</i>	<i>k</i>	<i>k</i>	<i>k</i>	<i>k</i>	<i>k</i>	<i>k</i>		<code>\mscrk</code>	mathematical script small k
U+1D4C1	<i>l</i>	<i>l</i>	<i>l</i>	<i>l</i>	<i>l</i>	<i>l</i>	<i>l</i>		<code>\mscr l</code>	mathematical script small l
U+1D4C2	<i>m</i>	<i>m</i>	<i>m</i>	<i>m</i>	<i>m</i>	<i>m</i>	<i>m</i>		<code>\mscrm</code>	mathematical script small m

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D4C3		<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>		<code>\mscrn</code>	mathematical script small n
U+1D4C5		<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>		<code>\mscrp</code>	mathematical script small p
U+1D4C6		<i>q</i>	<i>q</i>	<i>q</i>	<i>q</i>	<i>q</i>	<i>q</i>		<code>\mscrq</code>	mathematical script small q
U+1D4C7		<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>		<code>\mscrr</code>	mathematical script small r
U+1D4C8		<i>s</i>	<i>s</i>	<i>s</i>	<i>s</i>	<i>s</i>	<i>s</i>		<code>\mscrs</code>	mathematical script small s
U+1D4C9		<i>t</i>	<i>t</i>	<i>t</i>	<i>t</i>	<i>t</i>	<i>t</i>		<code>\mscrt</code>	mathematical script small t
U+1D4CA		<i>u</i>	<i>u</i>	<i>u</i>	<i>u</i>	<i>u</i>	<i>u</i>		<code>\mscru</code>	mathematical script small u
U+1D4CB		<i>v</i>	<i>v</i>	<i>v</i>	<i>v</i>	<i>v</i>	<i>v</i>		<code>\mscrv</code>	mathematical script small v
U+1D4CC		<i>w</i>	<i>w</i>	<i>w</i>	<i>w</i>	<i>w</i>	<i>w</i>		<code>\mscrw</code>	mathematical script small w
U+1D4CD		<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>		<code>\mscrx</code>	mathematical script small x
U+1D4CE		<i>y</i>	<i>y</i>	<i>y</i>	<i>y</i>	<i>y</i>	<i>y</i>		<code>\mscry</code>	mathematical script small y
U+1D4CF		<i>z</i>	<i>z</i>	<i>z</i>	<i>z</i>	<i>z</i>	<i>z</i>		<code>\mscrz</code>	mathematical script small z

### 13.1.9 Fraktur, Latin, uppercase

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D504	<i>A</i>	<i>A</i>	<i>A</i>	<i>A</i>	<i>A</i>	<i>A</i>	<i>A</i>	<i>A</i>	<code>\mfrakA</code>	mathematical fraktur capital a
U+1D505	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<code>\mfrakB</code>	mathematical fraktur capital b
U+1D507	<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>	<code>\mfrakD</code>	mathematical fraktur capital d
U+1D508	<i>E</i>	<i>E</i>	<i>E</i>	<i>E</i>	<i>E</i>	<i>E</i>	<i>E</i>	<i>E</i>	<code>\mfrakE</code>	mathematical fraktur capital e
U+1D509	<i>F</i>	<i>F</i>	<i>F</i>	<i>F</i>	<i>F</i>	<i>F</i>	<i>F</i>	<i>F</i>	<code>\mfrakF</code>	mathematical fraktur capital f
U+1D50A	<i>G</i>	<i>G</i>	<i>G</i>	<i>G</i>	<i>G</i>	<i>G</i>	<i>G</i>	<i>G</i>	<code>\mfrakG</code>	mathematical fraktur capital g
U+1D50D	<i>J</i>	<i>J</i>	<i>J</i>	<i>J</i>	<i>J</i>	<i>J</i>	<i>J</i>	<i>J</i>	<code>\mfrakJ</code>	mathematical fraktur capital j
U+1D50E	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>	<code>\mfrakK</code>	mathematical fraktur capital k
U+1D50F	<i>L</i>	<i>L</i>	<i>L</i>	<i>L</i>	<i>L</i>	<i>L</i>	<i>L</i>	<i>L</i>	<code>\mfrakL</code>	mathematical fraktur capital l

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D510									<code>\mfrakM</code>	mathematical fraktur capital m
U+1D511									<code>\mfrakN</code>	mathematical fraktur capital n
U+1D512									<code>\mfrakO</code>	mathematical fraktur capital o
U+1D513									<code>\mfrakP</code>	mathematical fraktur capital p
U+1D514									<code>\mfrakQ</code>	mathematical fraktur capital q
U+1D516									<code>\mfrakS</code>	mathematical fraktur capital s
U+1D517									<code>\mfrakT</code>	mathematical fraktur capital t
U+1D518									<code>\mfrakU</code>	mathematical fraktur capital u
U+1D519									<code>\mfrakV</code>	mathematical fraktur capital v
U+1D51A									<code>\mfrakW</code>	mathematical fraktur capital w
U+1D51B									<code>\mfrakX</code>	mathematical fraktur capital x
U+1D51C									<code>\mfrakY</code>	mathematical fraktur capital y

### 13.1.10 Fraktur, Latin, lowercase

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D51E									<code>\mfraka</code>	mathematical fraktur small a
U+1D51F									<code>\mfrakb</code>	mathematical fraktur small b
U+1D520									<code>\mfrakc</code>	mathematical fraktur small c
U+1D521									<code>\mfrakd</code>	mathematical fraktur small d
U+1D522									<code>\mfrake</code>	mathematical fraktur small e
U+1D523									<code>\mfrakf</code>	mathematical fraktur small f
U+1D524									<code>\mfrakg</code>	mathematical fraktur small g
U+1D525									<code>\mfrakh</code>	mathematical fraktur small h
U+1D526									<code>\mfraki</code>	mathematical fraktur small i

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D527	j	j	j	j	j	j	j	j	\mfracj	mathematical fraktur small j
U+1D528	k	k	k	k	k	k	k	k	\mfrack	mathematical fraktur small k
U+1D529	l	l	l	l	l	l	l	l	\mfracl	mathematical fraktur small l
U+1D52A	m	m	m	m	m	m	m	m	\mfracm	mathematical fraktur small m
U+1D52B	n	n	n	n	n	n	n	n	\mfracn	mathematical fraktur small n
U+1D52C	o	o	o	o	o	o	o	o	\mfrako	mathematical fraktur small o
U+1D52D	p	p	p	p	p	p	p	p	\mfracp	mathematical fraktur small p
U+1D52E	q	q	q	q	q	q	q	q	\mfracq	mathematical fraktur small q
U+1D52F	r	r	r	r	r	r	r	r	\mfracr	mathematical fraktur small r
U+1D530	s	s	s	s	s	s	s	s	\mfraks	mathematical fraktur small s
U+1D531	t	t	t	t	t	t	t	t	\mfrakt	mathematical fraktur small t
U+1D532	u	u	u	u	u	u	u	u	\mfraku	mathematical fraktur small u
U+1D533	v	v	v	v	v	v	v	v	\mfracv	mathematical fraktur small v
U+1D534	w	w	w	w	w	w	w	w	\mfracw	mathematical fraktur small w
U+1D535	x	x	x	x	x	x	x	x	\mfracx	mathematical fraktur small x
U+1D536	y	y	y	y	y	y	y	y	\mfracy	mathematical fraktur small y
U+1D537	z	z	z	z	z	z	z	z	\mfracz	mathematical fraktur small z

### 13.1.11 Blackboard, Latin, uppercase

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D538	A	A	A	A	A	A	A		\BbbA	mathematical double-struck capital a
U+1D539	B	B	B	B	B	B	B		\BbbB	mathematical double-struck capital b
U+1D53B	D	D	D	D	D	D	D		\BbbD	mathematical double-struck capital d
U+1D53C	E	E	E	E	E	E	E		\BbbE	mathematical double-struck capital e

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D53D	<b>F</b>	<b>F</b>	<b>F</b>	<b>F</b>	<b>F</b>	<b>F</b>	<b>F</b>		\BbbF	mathematical double-struck capital f
U+1D53E	<b>G</b>	<b>G</b>	<b>G</b>	<b>G</b>	<b>G</b>	<b>G</b>	<b>G</b>		\BbbG	mathematical double-struck capital g
U+1D540	<b>I</b>	<b>I</b>	<b>I</b>	<b>I</b>	<b>I</b>	<b>I</b>	<b>I</b>		\BbbI	mathematical double-struck capital i
U+1D541	<b>J</b>	<b>J</b>	<b>J</b>	<b>J</b>	<b>J</b>	<b>J</b>	<b>J</b>		\BbbJ	mathematical double-struck capital j
U+1D542	<b>K</b>	<b>K</b>	<b>K</b>	<b>K</b>	<b>K</b>	<b>K</b>	<b>K</b>		\BbbK	mathematical double-struck capital k
U+1D543	<b>L</b>	<b>L</b>	<b>L</b>	<b>L</b>	<b>L</b>	<b>L</b>	<b>L</b>		\BbbL	mathematical double-struck capital l
U+1D544	<b>M</b>	<b>M</b>	<b>M</b>	<b>M</b>	<b>M</b>	<b>M</b>	<b>M</b>		\BbbM	mathematical double-struck capital m
U+1D546	<b>O</b>	<b>O</b>	<b>O</b>	<b>O</b>	<b>O</b>	<b>O</b>	<b>O</b>		\BbbO	mathematical double-struck capital o
U+1D54A	<b>S</b>	<b>S</b>	<b>S</b>	<b>S</b>	<b>S</b>	<b>S</b>	<b>S</b>		\BbbS	mathematical double-struck capital s
U+1D54B	<b>T</b>	<b>T</b>	<b>T</b>	<b>T</b>	<b>T</b>	<b>T</b>	<b>T</b>		\BbbT	mathematical double-struck capital t
U+1D54C	<b>U</b>	<b>U</b>	<b>U</b>	<b>U</b>	<b>U</b>	<b>U</b>	<b>U</b>		\BbbU	mathematical double-struck capital u
U+1D54D	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>		\BbbV	mathematical double-struck capital v
U+1D54E	<b>W</b>	<b>W</b>	<b>W</b>	<b>W</b>	<b>W</b>	<b>W</b>	<b>W</b>		\BbbW	mathematical double-struck capital w
U+1D54F	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>		\BbbX	mathematical double-struck capital x
U+1D550	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>		\BbbY	mathematical double-struck capital y

### 13.1.12 Blackboard, Latin, lowercase

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D552	<b>a</b>	<b>a</b>	<b>a</b>	<b>a</b>	<b>a</b>	<b>a</b>	<b>a</b>		\Bbba	mathematical double-struck small a
U+1D553	<b>b</b>	<b>b</b>	<b>b</b>	<b>b</b>	<b>b</b>	<b>b</b>	<b>b</b>		\Bbbb	mathematical double-struck small b
U+1D554	<b>c</b>	<b>c</b>	<b>c</b>	<b>c</b>	<b>c</b>	<b>c</b>	<b>c</b>		\Bbbc	mathematical double-struck small c
U+1D555	<b>d</b>	<b>d</b>	<b>d</b>	<b>d</b>	<b>d</b>	<b>d</b>	<b>d</b>		\Bbbd	mathematical double-struck small d
U+1D556	<b>e</b>	<b>e</b>	<b>e</b>	<b>e</b>	<b>e</b>	<b>e</b>	<b>e</b>		\Bbbe	mathematical double-struck small e
U+1D557	<b>f</b>	<b>f</b>	<b>f</b>	<b>f</b>	<b>f</b>	<b>f</b>	<b>f</b>		\Bbbf	mathematical double-struck small f

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D558	g	g	g	g	g	g	g		\Bbbg	mathematical double-struck small g
U+1D559	h	h	h	h	h	h	h		\Bbbh	mathematical double-struck small h
U+1D55A	i	i	i	i	i	i	i		\Bbbi	mathematical double-struck small i
U+1D55B	j	j	j	j	j	j	j		\Bbbj	mathematical double-struck small j
U+1D55C	k	k	k	k	k	k	k		\Bbbk <sup>(a)</sup>	mathematical double-struck small k
U+1D55D	l	l	l	l	l	l	l		\Bbb l	mathematical double-struck small l
U+1D55E	m	m	m	m	m	m	m		\Bbbm	mathematical double-struck small m
U+1D55F	n	n	n	n	n	n	n		\Bbbn	mathematical double-struck small n
U+1D560	o	o	o	o	o	o	o		\Bbbo	mathematical double-struck small o
U+1D561	p	p	p	p	p	p	p		\Bbbp	mathematical double-struck small p
U+1D562	q	q	q	q	q	q	q		\Bbbq	mathematical double-struck small q
U+1D563	r	r	r	r	r	r	r		\Bbb r	mathematical double-struck small r
U+1D564	s	s	s	s	s	s	s		\Bbbs	mathematical double-struck small s
U+1D565	t	t	t	t	t	t	t		\Bbbt	mathematical double-struck small t
U+1D566	u	u	u	u	u	u	u		\Bbbu	mathematical double-struck small u
U+1D567	v	v	v	v	v	v	v		\Bbbv	mathematical double-struck small v
U+1D568	w	w	w	w	w	w	w		\Bbbw	mathematical double-struck small w
U+1D569	x	x	x	x	x	x	x		\Bbbx	mathematical double-struck small x
U+1D56A	y	y	y	y	y	y	y		\Bbby	mathematical double-struck small y
U+1D56B	z	z	z	z	z	z	z		\Bbbz	mathematical double-struck small z

### 13.1.13 Sans serif, Latin, uppercase

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D5A0	A	A	A	A	A	A	A		\msansA	mathematical sans-serif capital a

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D5A1	B	B	B	B	B	B	B		\msansB	mathematical sans-serif capital b
U+1D5A2	C	C	C	C	C	C	C		\msansC	mathematical sans-serif capital c
U+1D5A3	D	D	D	D	D	D	D		\msansD	mathematical sans-serif capital d
U+1D5A4	E	E	E	E	E	E	E		\msansE	mathematical sans-serif capital e
U+1D5A5	F	F	F	F	F	F	F		\msansF	mathematical sans-serif capital f
U+1D5A6	G	G	G	G	G	G	G		\msansG	mathematical sans-serif capital g
U+1D5A7	H	H	H	H	H	H	H		\msansH	mathematical sans-serif capital h
U+1D5A8	I	I	I	I	I	I	I		\msansI	mathematical sans-serif capital i
U+1D5A9	J	J	J	J	J	J	J		\msansJ	mathematical sans-serif capital j
U+1D5AA	K	K	K	K	K	K	K		\msansK	mathematical sans-serif capital k
U+1D5AB	L	L	L	L	L	L	L		\msansL	mathematical sans-serif capital l
U+1D5AC	M	M	M	M	M	M	M		\msansM	mathematical sans-serif capital m
U+1D5AD	N	N	N	N	N	N	N		\msansN	mathematical sans-serif capital n
U+1D5AE	O	O	O	O	O	O	O		\msansO	mathematical sans-serif capital o
U+1D5AF	P	P	P	P	P	P	P		\msansP	mathematical sans-serif capital p
U+1D5B0	Q	Q	Q	Q	Q	Q	Q		\msansQ	mathematical sans-serif capital q
U+1D5B1	R	R	R	R	R	R	R		\msansR	mathematical sans-serif capital r
U+1D5B2	S	S	S	S	S	S	S		\msansS	mathematical sans-serif capital s
U+1D5B3	T	T	T	T	T	T	T		\msansT	mathematical sans-serif capital t
U+1D5B4	U	U	U	U	U	U	U		\msansU	mathematical sans-serif capital u
U+1D5B5	V	V	V	V	V	V	V		\msansV	mathematical sans-serif capital v
U+1D5B6	W	W	W	W	W	W	W		\msansW	mathematical sans-serif capital w
U+1D5B7	X	X	X	X	X	X	X		\msansX	mathematical sans-serif capital x
U+1D5B8	Y	Y	Y	Y	Y	Y	Y		\msansY	mathematical sans-serif capital y



USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D5B9	Z	Z	Z	Z	Z	Z	Z		\msansZ	mathematical sans-serif capital z

### 13.1.14 Sans serif, Latin, lowercase

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D5BA	a	a	a	a	a	a	a		\msansa	mathematical sans-serif small a
U+1D5BB	b	b	b	b	b	b	b		\msansb	mathematical sans-serif small b
U+1D5BC	c	c	c	c	c	c	c		\msansc	mathematical sans-serif small c
U+1D5BD	d	d	d	d	d	d	d		\msansd	mathematical sans-serif small d
U+1D5BE	e	e	e	e	e	e	e		\msanse	mathematical sans-serif small e
U+1D5BF	f	f	f	f	f	f	f		\msansf	mathematical sans-serif small f
U+1D5C0	g	g	g	g	g	g	g		\msansg	mathematical sans-serif small g
U+1D5C1	h	h	h	h	h	h	h		\msansh	mathematical sans-serif small h
U+1D5C2	i	i	i	i	i	i	i		\msansi	mathematical sans-serif small i
U+1D5C3	j	j	j	j	j	j	j		\msansj	mathematical sans-serif small j
U+1D5C4	k	k	k	k	k	k	k		\msansk	mathematical sans-serif small k
U+1D5C5	l	l	l	l	l	l	l		\msansl	mathematical sans-serif small l
U+1D5C6	m	m	m	m	m	m	m		\msansm	mathematical sans-serif small m
U+1D5C7	n	n	n	n	n	n	n		\msansn	mathematical sans-serif small n
U+1D5C8	o	o	o	o	o	o	o		\msanso	mathematical sans-serif small o
U+1D5C9	p	p	p	p	p	p	p		\msansp	mathematical sans-serif small p
U+1D5CA	q	q	q	q	q	q	q		\msansq	mathematical sans-serif small q
U+1D5CB	r	r	r	r	r	r	r		\msansr	mathematical sans-serif small r
U+1D5CC	s	s	s	s	s	s	s		\msanss	mathematical sans-serif small s
U+1D5CD	t	t	t	t	t	t	t		\msanst	mathematical sans-serif small t

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D5CE	u	u	u	u	u	u	u		\msansu	mathematical sans-serif small u
U+1D5CF	v	v	v	v	v	v	v		\msansv	mathematical sans-serif small v
U+1D5D0	w	w	w	w	w	w	w		\msansw	mathematical sans-serif small w
U+1D5D1	x	x	x	x	x	x	x		\msansx	mathematical sans-serif small x
U+1D5D2	y	y	y	y	y	y	y		\msansy	mathematical sans-serif small y
U+1D5D3	z	z	z	z	z	z	z		\msansz	mathematical sans-serif small z

### 13.1.15 Italic sans serif, Latin, uppercase

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D608	A	A	A	A	A	A	A		\mitsansA	mathematical sans-serif italic capital a
U+1D609	B	B	B	B	B	B	B		\mitsansB	mathematical sans-serif italic capital b
U+1D60A	C	C	C	C	C	C	C		\mitsansC	mathematical sans-serif italic capital c
U+1D60B	D	D	D	D	D	D	D		\mitsansD	mathematical sans-serif italic capital d
U+1D60C	E	E	E	E	E	E	E		\mitsansE	mathematical sans-serif italic capital e
U+1D60D	F	F	F	F	F	F	F		\mitsansF	mathematical sans-serif italic capital f
U+1D60E	G	G	G	G	G	G	G		\mitsansG	mathematical sans-serif italic capital g
U+1D60F	H	H	H	H	H	H	H		\mitsansH	mathematical sans-serif italic capital h
U+1D610	I	I	I	I	I	I	I		\mitsansI	mathematical sans-serif italic capital i
U+1D611	J	J	J	J	J	J	J		\mitsansJ	mathematical sans-serif italic capital j
U+1D612	K	K	K	K	K	K	K		\mitsansK	mathematical sans-serif italic capital k
U+1D613	L	L	L	L	L	L	L		\mitsansL	mathematical sans-serif italic capital l
U+1D614	M	M	M	M	M	M	M		\mitsansM	mathematical sans-serif italic capital m
U+1D615	N	N	N	N	N	N	N		\mitsansN	mathematical sans-serif italic capital n
U+1D616	O	O	O	O	O	O	O		\mitsansO	mathematical sans-serif italic capital o

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D617	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>		<code>\mitsansP</code>	mathematical sans-serif italic capital p
U+1D618	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>		<code>\mitsansQ</code>	mathematical sans-serif italic capital q
U+1D619	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>		<code>\mitsansR</code>	mathematical sans-serif italic capital r
U+1D61A	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>		<code>\mitsansS</code>	mathematical sans-serif italic capital s
U+1D61B	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>		<code>\mitsansT</code>	mathematical sans-serif italic capital t
U+1D61C	<i>U</i>	<i>U</i>	<i>U</i>	<i>U</i>	<i>U</i>	<i>U</i>	<i>U</i>		<code>\mitsansU</code>	mathematical sans-serif italic capital u
U+1D61D	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>		<code>\mitsansV</code>	mathematical sans-serif italic capital v
U+1D61E	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>		<code>\mitsansW</code>	mathematical sans-serif italic capital w
U+1D61F	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>		<code>\mitsansX</code>	mathematical sans-serif italic capital x
U+1D620	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>		<code>\mitsansY</code>	mathematical sans-serif italic capital y
U+1D621	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>		<code>\mitsansZ</code>	mathematical sans-serif italic capital z

### 13.1.16 Italic sans serif, Latin, lowercase

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D622	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>		<code>\mitsansa</code>	mathematical sans-serif italic small a
U+1D623	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>		<code>\mitsansb</code>	mathematical sans-serif italic small b
U+1D624	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>		<code>\mitsansc</code>	mathematical sans-serif italic small c
U+1D625	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>		<code>\mitsansd</code>	mathematical sans-serif italic small d
U+1D626	<i>e</i>	<i>e</i>	<i>e</i>	<i>e</i>	<i>e</i>	<i>e</i>	<i>e</i>		<code>\mitsanse</code>	mathematical sans-serif italic small e
U+1D627	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>		<code>\mitsansf</code>	mathematical sans-serif italic small f
U+1D628	<i>g</i>	<i>g</i>	<i>g</i>	<i>g</i>	<i>g</i>	<i>g</i>	<i>g</i>		<code>\mitsansg</code>	mathematical sans-serif italic small g
U+1D629	<i>h</i>	<i>h</i>	<i>h</i>	<i>h</i>	<i>h</i>	<i>h</i>	<i>h</i>		<code>\mitsansh</code>	mathematical sans-serif italic small h
U+1D62A	<i>i</i>	<i>i</i>	<i>i</i>	<i>i</i>	<i>i</i>	<i>i</i>	<i>i</i>		<code>\mitsansi</code>	mathematical sans-serif italic small i
U+1D62B	<i>j</i>	<i>j</i>	<i>j</i>	<i>j</i>	<i>j</i>	<i>j</i>	<i>j</i>		<code>\mitsansj</code>	mathematical sans-serif italic small j

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D62C	<i>k</i>	<i>k</i>	<i>k</i>	<i>k</i>	<i>k</i>	<i>k</i>	<i>k</i>		<code>\mitsansk</code>	mathematical sans-serif italic small k
U+1D62D	<i>l</i>	<i>l</i>	<i>l</i>	<i>l</i>	<i>l</i>	<i>l</i>	<i>l</i>		<code>\mitsansl</code>	mathematical sans-serif italic small l
U+1D62E	<i>m</i>	<i>m</i>	<i>m</i>	<i>m</i>	<i>m</i>	<i>m</i>	<i>m</i>		<code>\mitsansm</code>	mathematical sans-serif italic small m
U+1D62F	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>		<code>\mitsansn</code>	mathematical sans-serif italic small n
U+1D630	<i>o</i>	<i>o</i>	<i>o</i>	<i>o</i>	<i>o</i>	<i>o</i>	<i>o</i>		<code>\mitsanso</code>	mathematical sans-serif italic small o
U+1D631	<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>		<code>\mitsansp</code>	mathematical sans-serif italic small p
U+1D632	<i>q</i>	<i>q</i>	<i>q</i>	<i>q</i>	<i>q</i>	<i>q</i>	<i>q</i>		<code>\mitsansq</code>	mathematical sans-serif italic small q
U+1D633	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>		<code>\mitsansr</code>	mathematical sans-serif italic small r
U+1D634	<i>s</i>	<i>s</i>	<i>s</i>	<i>s</i>	<i>s</i>	<i>s</i>	<i>s</i>		<code>\mitsanss</code>	mathematical sans-serif italic small s
U+1D635	<i>t</i>	<i>t</i>	<i>t</i>	<i>t</i>	<i>t</i>	<i>t</i>	<i>t</i>		<code>\mitsanst</code>	mathematical sans-serif italic small t
U+1D636	<i>u</i>	<i>u</i>	<i>u</i>	<i>u</i>	<i>u</i>	<i>u</i>	<i>u</i>		<code>\mitsansu</code>	mathematical sans-serif italic small u
U+1D637	<i>v</i>	<i>v</i>	<i>v</i>	<i>v</i>	<i>v</i>	<i>v</i>	<i>v</i>		<code>\mitsansv</code>	mathematical sans-serif italic small v
U+1D638	<i>w</i>	<i>w</i>	<i>w</i>	<i>w</i>	<i>w</i>	<i>w</i>	<i>w</i>		<code>\mitsansw</code>	mathematical sans-serif italic small w
U+1D639	<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>		<code>\mitsansx</code>	mathematical sans-serif italic small x
U+1D63A	<i>y</i>	<i>y</i>	<i>y</i>	<i>y</i>	<i>y</i>	<i>y</i>	<i>y</i>		<code>\mitsansy</code>	mathematical sans-serif italic small y
U+1D63B	<i>z</i>	<i>z</i>	<i>z</i>	<i>z</i>	<i>z</i>	<i>z</i>	<i>z</i>		<code>\mitsansz</code>	mathematical sans-serif italic small z

### 13.1.17 Typewriter, Latin, uppercase

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D670	A	A	A		A	A	A		<code>\mttA</code>	mathematical monospace capital a
U+1D671	B	B	B		B	B	B		<code>\mttB</code>	mathematical monospace capital b
U+1D672	C	C	C		C	C	C		<code>\mttC</code>	mathematical monospace capital c
U+1D673	D	D	D		D	D	D		<code>\mttD</code>	mathematical monospace capital d
U+1D674	E	E	E		E	E	E		<code>\mttE</code>	mathematical monospace capital e

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D675	F	F	F		F	F	F		\mttF	mathematical monospace capital f
U+1D676	G	G	G		G	G	G		\mttG	mathematical monospace capital g
U+1D677	H	H	H		H	H	H		\mttH	mathematical monospace capital h
U+1D678	I	I	I		I	I	I		\mttI	mathematical monospace capital i
U+1D679	J	J	J		J	J	J		\mttJ	mathematical monospace capital j
U+1D67A	K	K	K		K	K	K		\mttK	mathematical monospace capital k
U+1D67B	L	L	L		L	L	L		\mttL	mathematical monospace capital l
U+1D67C	M	M	M		M	M	M		\mttM	mathematical monospace capital m
U+1D67D	N	N	N		N	N	N		\mttN	mathematical monospace capital n
U+1D67E	O	O	O		O	O	O		\mttO	mathematical monospace capital o
U+1D67F	P	P	P		P	P	P		\mttP	mathematical monospace capital p
U+1D680	Q	Q	Q		Q	Q	Q		\mttQ	mathematical monospace capital q
U+1D681	R	R	R		R	R	R		\mttR	mathematical monospace capital r
U+1D682	S	S	S		S	S	S		\mttS	mathematical monospace capital s
U+1D683	T	T	T		T	T	T		\mttT	mathematical monospace capital t
U+1D684	U	U	U		U	U	U		\mttU	mathematical monospace capital u
U+1D685	V	V	V		V	V	V		\mttV	mathematical monospace capital v
U+1D686	W	W	W		W	W	W		\mttW	mathematical monospace capital w
U+1D687	X	X	X		X	X	X		\mttX	mathematical monospace capital x
U+1D688	Y	Y	Y		Y	Y	Y		\mttY	mathematical monospace capital y
U+1D689	Z	Z	Z		Z	Z	Z		\mttZ	mathematical monospace capital z

### 13.1.18 Typewriter, Latin, lowercase

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D68A	a	a	a		a	a	a		\mtta	mathematical monospace small a
U+1D68B	b	b	b		b	b	b		\mttb	mathematical monospace small b
U+1D68C	c	c	c		c	c	c		\mttc	mathematical monospace small c
U+1D68D	d	d	d		d	d	d		\mttd	mathematical monospace small d
U+1D68E	e	e	e		e	e	e		\mtte	mathematical monospace small e
U+1D68F	f	f	f		f	f	f		\mttf	mathematical monospace small f
U+1D690	g	g	g		g	g	g		\mttg	mathematical monospace small g
U+1D691	h	h	h		h	h	h		\mtth	mathematical monospace small h
U+1D692	i	i	i		i	i	i		\mtti	mathematical monospace small i
U+1D693	j	j	j		j	j	j		\mttj	mathematical monospace small j
U+1D694	k	k	k		k	k	k		\mttk	mathematical monospace small k
U+1D695	l	l	l		l	l	l		\mttl	mathematical monospace small l
U+1D696	m	m	m		m	m	m		\mttm	mathematical monospace small m
U+1D697	n	n	n		n	n	n		\mttn	mathematical monospace small n
U+1D698	o	o	o		o	o	o		\mtto	mathematical monospace small o
U+1D699	p	p	p		p	p	p		\mttp	mathematical monospace small p
U+1D69A	q	q	q		q	q	q		\mttq	mathematical monospace small q
U+1D69B	r	r	r		r	r	r		\mttr	mathematical monospace small r
U+1D69C	s	s	s		s	s	s		\mtts	mathematical monospace small s
U+1D69D	t	t	t		t	t	t		\mttt	mathematical monospace small t
U+1D69E	u	u	u		u	u	u		\mttu	mathematical monospace small u
U+1D69F	v	v	v		v	v	v		\mttv	mathematical monospace small v
U+1D6A0	w	w	w		w	w	w		\mttw	mathematical monospace small w
U+1D6A1	x	x	x		x	x	x		\mttx	mathematical monospace small x

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D6A2	ŷ	ẏ	ẑ		ȳ	ȳ	ȳ		\mtty	mathematical monospace small y
U+1D6A3	Ẓ	Ẑ	Ẓ		Ẓ	Ẓ	Ẓ		\mttz	mathematical monospace small z

## 13.2 Bold

### 13.2.1 Bold, Latin, uppercase

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D400	A	A	A	A	A	A	A	A	\mbfA	mathematical bold capital a
U+1D401	B	B	B	B	B	B	B	B	\mbfB	mathematical bold capital b
U+1D402	C	C	C	C	C	C	C	C	\mbfC	mathematical bold capital c
U+1D403	D	D	D	D	D	D	D	D	\mbfD	mathematical bold capital d
U+1D404	E	E	E	E	E	E	E	E	\mbfE	mathematical bold capital e
U+1D405	F	F	F	F	F	F	F	F	\mbfF	mathematical bold capital f
U+1D406	G	G	G	G	G	G	G	G	\mbfG	mathematical bold capital g
U+1D407	H	H	H	H	H	H	H	H	\mbfH	mathematical bold capital h
U+1D408	I	I	I	I	I	I	I	I	\mbfI	mathematical bold capital i
U+1D409	J	J	J	J	J	J	J	J	\mbfJ	mathematical bold capital j
U+1D40A	K	K	K	K	K	K	K	K	\mbfK	mathematical bold capital k
U+1D40B	L	L	L	L	L	L	L	L	\mbfL	mathematical bold capital l
U+1D40C	M	M	M	M	M	M	M	M	\mbfM	mathematical bold capital m
U+1D40D	N	N	N	N	N	N	N	N	\mbfN	mathematical bold capital n
U+1D40E	O	O	O	O	O	O	O	O	\mbfO	mathematical bold capital o
U+1D40F	P	P	P	P	P	P	P	P	\mbfP	mathematical bold capital p
U+1D410	Q	Q	Q	Q	Q	Q	Q	Q	\mbfQ	mathematical bold capital q
U+1D411	R	R	R	R	R	R	R	R	\mbfR	mathematical bold capital r

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D412	<b>S</b>	<b>S</b>	<b>S</b>	<b>S</b>	<b>S</b>	<b>S</b>	<b>S</b>	<b>S</b>	<code>\mbfS</code>	mathematical bold capital s
U+1D413	<b>T</b>	<b>T</b>	<b>T</b>	<b>T</b>	<b>T</b>	<b>T</b>	<b>T</b>	<b>T</b>	<code>\mbfT</code>	mathematical bold capital t
U+1D414	<b>U</b>	<b>U</b>	<b>U</b>	<b>U</b>	<b>U</b>	<b>U</b>	<b>U</b>	<b>U</b>	<code>\mbfU</code>	mathematical bold capital u
U+1D415	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>	<code>\mbfV</code>	mathematical bold capital v
U+1D416	<b>W</b>	<b>W</b>	<b>W</b>	<b>W</b>	<b>W</b>	<b>W</b>	<b>W</b>	<b>W</b>	<code>\mbfW</code>	mathematical bold capital w
U+1D417	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<code>\mbfX</code>	mathematical bold capital x
U+1D418	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>	<code>\mbfY</code>	mathematical bold capital y
U+1D419	<b>Z</b>	<b>Z</b>	<b>Z</b>	<b>Z</b>	<b>Z</b>	<b>Z</b>	<b>Z</b>	<b>Z</b>	<code>\mbfZ</code>	mathematical bold capital z

### 13.2.2 Bold, Latin, lowercase

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D41A	<b>a</b>	<b>a</b>	<b>a</b>	<b>a</b>	<b>a</b>	<b>a</b>	<b>a</b>	<b>a</b>	<code>\mbfa</code>	mathematical bold small a
U+1D41B	<b>b</b>	<b>b</b>	<b>b</b>	<b>b</b>	<b>b</b>	<b>b</b>	<b>b</b>	<b>b</b>	<code>\mbfb</code>	mathematical bold small b
U+1D41C	<b>c</b>	<b>c</b>	<b>c</b>	<b>c</b>	<b>c</b>	<b>c</b>	<b>c</b>	<b>c</b>	<code>\mbfc</code>	mathematical bold small c
U+1D41D	<b>d</b>	<b>d</b>	<b>d</b>	<b>d</b>	<b>d</b>	<b>d</b>	<b>d</b>	<b>d</b>	<code>\mbfd</code>	mathematical bold small d
U+1D41E	<b>e</b>	<b>e</b>	<b>e</b>	<b>e</b>	<b>e</b>	<b>e</b>	<b>e</b>	<b>e</b>	<code>\mbfe</code>	mathematical bold small e
U+1D41F	<b>f</b>	<b>f</b>	<b>f</b>	<b>f</b>	<b>f</b>	<b>f</b>	<b>f</b>	<b>f</b>	<code>\mbff</code>	mathematical bold small f
U+1D420	<b>g</b>	<b>g</b>	<b>g</b>	<b>g</b>	<b>g</b>	<b>g</b>	<b>g</b>	<b>g</b>	<code>\mbfg</code>	mathematical bold small g
U+1D421	<b>h</b>	<b>h</b>	<b>h</b>	<b>h</b>	<b>h</b>	<b>h</b>	<b>h</b>	<b>h</b>	<code>\mbfh</code>	mathematical bold small h
U+1D422	<b>i</b>	<b>i</b>	<b>i</b>	<b>i</b>	<b>i</b>	<b>i</b>	<b>i</b>	<b>i</b>	<code>\mbfi</code>	mathematical bold small i
U+1D423	<b>j</b>	<b>j</b>	<b>j</b>	<b>j</b>	<b>j</b>	<b>j</b>	<b>j</b>	<b>j</b>	<code>\mbfj</code>	mathematical bold small j
U+1D424	<b>k</b>	<b>k</b>	<b>k</b>	<b>k</b>	<b>k</b>	<b>k</b>	<b>k</b>	<b>k</b>	<code>\mbfk</code>	mathematical bold small k
U+1D425	<b>l</b>	<b>l</b>	<b>l</b>	<b>l</b>	<b>l</b>	<b>l</b>	<b>l</b>	<b>l</b>	<code>\mbfl</code>	mathematical bold small l
U+1D426	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<code>\mbfm</code>	mathematical bold small m



USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D427	<b>n</b>	<b>n</b>	<b>n</b>	<b>n</b>	<b>n</b>	<b>n</b>	<b>n</b>	<b>n</b>	<code>\mbfn</code>	mathematical bold small n
U+1D428	<b>o</b>	<b>o</b>	<b>o</b>	<b>o</b>	<b>o</b>	<b>o</b>	<b>o</b>	<b>o</b>	<code>\mbfo</code>	mathematical bold small o
U+1D429	<b>p</b>	<b>p</b>	<b>p</b>	<b>p</b>	<b>p</b>	<b>p</b>	<b>p</b>	<b>p</b>	<code>\mbfp</code>	mathematical bold small p
U+1D42A	<b>q</b>	<b>q</b>	<b>q</b>	<b>q</b>	<b>q</b>	<b>q</b>	<b>q</b>	<b>q</b>	<code>\mbfq</code>	mathematical bold small q
U+1D42B	<b>r</b>	<b>r</b>	<b>r</b>	<b>r</b>	<b>r</b>	<b>r</b>	<b>r</b>	<b>r</b>	<code>\mbfr</code>	mathematical bold small r
U+1D42C	<b>s</b>	<b>s</b>	<b>s</b>	<b>s</b>	<b>s</b>	<b>s</b>	<b>s</b>	<b>s</b>	<code>\mbfs</code>	mathematical bold small s
U+1D42D	<b>t</b>	<b>t</b>	<b>t</b>	<b>t</b>	<b>t</b>	<b>t</b>	<b>t</b>	<b>t</b>	<code>\mbft</code>	mathematical bold small t
U+1D42E	<b>u</b>	<b>u</b>	<b>u</b>	<b>u</b>	<b>u</b>	<b>u</b>	<b>u</b>	<b>u</b>	<code>\mbfu</code>	mathematical bold small u
U+1D42F	<b>v</b>	<b>v</b>	<b>v</b>	<b>v</b>	<b>v</b>	<b>v</b>	<b>v</b>	<b>v</b>	<code>\mbfv</code>	mathematical bold small v
U+1D430	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<code>\mbfw</code>	mathematical bold small w
U+1D431	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<code>\mbfx</code>	mathematical bold small x
U+1D432	<b>y</b>	<b>y</b>	<b>y</b>	<b>y</b>	<b>y</b>	<b>y</b>	<b>y</b>	<b>y</b>	<code>\mbfy</code>	mathematical bold small y
U+1D433	<b>z</b>	<b>z</b>	<b>z</b>	<b>z</b>	<b>z</b>	<b>z</b>	<b>z</b>	<b>z</b>	<code>\mbfz</code>	mathematical bold small z

### 13.2.3 Bold Greek, uppercase

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D6A8	<b>Α</b>	<b>Α</b>	<b>Α</b>	<b>Α</b>	<b>Α</b>	<b>Α</b>	<b>Α</b>	<b>Α</b>	<code>\mbfAlpha</code>	mathematical bold capital alpha
U+1D6A9	<b>Β</b>	<b>Β</b>	<b>Β</b>	<b>Β</b>	<b>Β</b>	<b>Β</b>	<b>Β</b>	<b>Β</b>	<code>\mbfBeta</code>	mathematical bold capital beta
U+1D6AA	<b>Γ</b>	<b>Γ</b>	<b>Γ</b>	<b>Γ</b>	<b>Γ</b>	<b>Γ</b>	<b>Γ</b>	<b>Γ</b>	<code>\mbfGamma</code>	mathematical bold capital gamma
U+1D6AB	<b>Δ</b>	<b>Δ</b>	<b>Δ</b>	<b>Δ</b>	<b>Δ</b>	<b>Δ</b>	<b>Δ</b>	<b>Δ</b>	<code>\mbfDelta</code>	mathematical bold capital delta
U+1D6AC	<b>Ε</b>	<b>Ε</b>	<b>Ε</b>	<b>Ε</b>	<b>Ε</b>	<b>Ε</b>	<b>Ε</b>	<b>Ε</b>	<code>\mbfEpsilon</code>	mathematical bold capital epsilon
U+1D6AD	<b>Ζ</b>	<b>Ζ</b>	<b>Ζ</b>	<b>Ζ</b>	<b>Ζ</b>	<b>Ζ</b>	<b>Ζ</b>	<b>Ζ</b>	<code>\mbfZeta</code>	mathematical bold capital zeta
U+1D6AE	<b>Η</b>	<b>Η</b>	<b>Η</b>	<b>Η</b>	<b>Η</b>	<b>Η</b>	<b>Η</b>	<b>Η</b>	<code>\mbfEta</code>	mathematical bold capital eta
U+1D6AF	<b>Θ</b>	<b>Θ</b>	<b>Θ</b>	<b>Θ</b>	<b>Θ</b>	<b>Θ</b>	<b>Θ</b>	<b>Θ</b>	<code>\mbfTheta</code>	mathematical bold capital theta

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D6B0	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	\mbfIota	mathematical bold capital iota
U+1D6B1	Κ	Κ	Κ	Κ	Κ	Κ	Κ	Κ	\mbfKappa	mathematical bold capital kappa
U+1D6B2	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ	\mbfLambda	mathematical bold capital lambda
U+1D6B3	Μ	Μ	Μ	Μ	Μ	Μ	Μ	Μ	\mbfMu	mathematical bold capital mu
U+1D6B4	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	\mbfNu	mathematical bold capital nu
U+1D6B5	Ξ	Ξ	Ξ	Ξ	Ξ	Ξ	Ξ	Ξ	\mbfXi	mathematical bold capital xi
U+1D6B6	Ο	Ο	Ο	Ο	Ο	Ο	Ο	Ο	\mbfOmicron	mathematical bold capital omicron
U+1D6B7	Π	Π	Π	Π	Π	Π	Π	Π	\mbfPi	mathematical bold capital pi
U+1D6B8	Ρ	Ρ	Ρ	Ρ	Ρ	Ρ	Ρ	Ρ	\mbfRho	mathematical bold capital rho
U+1D6B9	Θ	Θ	Θ	Θ	Θ	Θ	Θ		\mbfvarTheta	mathematical bold capital theta symbol
U+1D6BA	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	\mbfSigma	mathematical bold capital sigma
U+1D6BB	Τ	Τ	Τ	Τ	Τ	Τ	Τ	Τ	\mbfTau	mathematical bold capital tau
U+1D6BC	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	\mbfUpsilon	mathematical bold capital upsilon
U+1D6BD	Φ	Φ	Φ	Φ	Φ	Φ	Φ	Φ	\mbfPhi	mathematical bold capital phi
U+1D6BE	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	\mbfChi	mathematical bold capital chi
U+1D6BF	Ψ	Ψ	Ψ	Ψ	Ψ	Ψ	Ψ	Ψ	\mbfPsi	mathematical bold capital psi
U+1D6C0	Ω	Ω	Ω	Ω	Ω	Ω	Ω	Ω	\mbfOmega	mathematical bold capital omega

### 13.2.4 Bold Greek, lowercase

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D6C2	α	α	α	α	α	α	α	α	\mbfalphabet	mathematical bold small alpha
U+1D6C3	β	β	β	β	β	β	β	β	\mbfbeta	mathematical bold small beta
U+1D6C4	γ	γ	γ	γ	γ	γ	γ	γ	\mbfgamma	mathematical bold small gamma
U+1D6C5	δ	δ	δ	δ	δ	δ	δ	δ	\mbfdelta	mathematical bold small delta

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D6C6	ε	ε	ε	ε	ε	ε	ε	ε	\mbfvarepsilon	mathematical bold small varepsilon
U+1D6C7	ζ	ζ	ζ	ζ	ζ	ζ	ζ	ζ	\mbfzeta	mathematical bold small zeta
U+1D6C8	η	η	η	η	η	η	η	η	\mbfeta	mathematical bold small eta
U+1D6C9	θ	θ	θ	θ	θ	θ	θ	θ	\mbftheta	mathematical bold small theta
U+1D6CA	ι	ι	ι	ι	ι	ι	ι	ι	\mbfiota	mathematical bold small iota
U+1D6CB	κ	κ	κ	κ	κ	κ	κ	κ	\mbfkappa	mathematical bold small kappa
U+1D6CC	λ	λ	λ	λ	λ	λ	λ	λ	\mbflambda	mathematical bold small lambda
U+1D6CD	μ	μ	μ	μ	μ	μ	μ	μ	\mbfmu	mathematical bold small mu
U+1D6CE	ν	ν	ν	ν	ν	ν	ν	ν	\mbfnu	mathematical bold small nu
U+1D6CF	ξ	ξ	ξ	ξ	ξ	ξ	ξ	ξ	\mbfxi	mathematical bold small xi
U+1D6D0	ο	ο	ο	ο	ο	ο	ο	ο	\mbfomicron	mathematical bold small omicron
U+1D6D1	π	π	π	π	π	π	π	π	\mbfpi	mathematical bold small pi
U+1D6D2	ρ	ρ	ρ	ρ	ρ	ρ	ρ	ρ	\mbfrho	mathematical bold small rho
U+1D6D3	ς	ς	ς	ς	ς	ς	ς		\mbfvarsigma	mathematical bold small final sigma
U+1D6D4	σ	σ	σ	σ	σ	σ	σ	σ	\mbfsigma	mathematical bold small sigma
U+1D6D5	τ	τ	τ	τ	τ	τ	τ	τ	\mbftau	mathematical bold small tau
U+1D6D6	υ	υ	υ	υ	υ	υ	υ	υ	\mbfupsilon	mathematical bold small upsilon
U+1D6D7	φ	φ	φ	φ	φ	φ	φ	φ	\mbfvarphi	mathematical bold small phi
U+1D6D8	χ	χ	χ	χ	χ	χ	χ	χ	\mbfchi	mathematical bold small chi
U+1D6D9	ψ	ψ	ψ	ψ	ψ	ψ	ψ	ψ	\mbfpsi	mathematical bold small psi
U+1D6DA	ω	ω	ω	ω	ω	ω	ω	ω	\mbfomega	mathematical bold small omega
U+1D6DB	∂	∂	∂	∂	∂	∂	∂	∂	\mbfpartial	mathematical bold partial differential
U+1D6DC	€	€	€	€	€	€	€	€	\mbfepsilon	mathematical bold varepsilon symbol
U+1D6DD	ϑ	ϑ	ϑ	ϑ	ϑ	ϑ	ϑ	ϑ	\mbfvartheta	mathematical bold theta symbol

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D6DE	κ	κ	κ	κ	κ	κ	κ		\mbfvarkappa	mathematical bold kappa symbol
U+1D6DF	φ	φ	φ	φ	φ	φ	φ	φ	\mbfphi	mathematical bold phi symbol
U+1D6E0	ρ	ρ	ρ	ρ	ρ	ρ	ρ		\mbfvarrho	mathematical bold rho symbol
U+1D6E1	π	π	π	π	π	π	π	π	\mbfvarpi	mathematical bold pi symbol

### 13.2.5 Bold italic, Latin, uppercase

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D468	A	A	A	A	A	A	A		\mbfitA	mathematical bold italic capital a
U+1D469	B	B	B	B	B	B	B		\mbfitB	mathematical bold italic capital b
U+1D46A	C	C	C	C	C	C	C		\mbfitC	mathematical bold italic capital c
U+1D46B	D	D	D	D	D	D	D		\mbfitD	mathematical bold italic capital d
U+1D46C	E	E	E	E	E	E	E		\mbfitE	mathematical bold italic capital e
U+1D46D	F	F	F	F	F	F	F		\mbfitF	mathematical bold italic capital f
U+1D46E	G	G	G	G	G	G	G		\mbfitG	mathematical bold italic capital g
U+1D46F	H	H	H	H	H	H	H		\mbfitH	mathematical bold italic capital h
U+1D470	I	I	I	I	I	I	I		\mbfitI	mathematical bold italic capital i
U+1D471	J	J	J	J	J	J	J		\mbfitJ	mathematical bold italic capital j
U+1D472	K	K	K	K	K	K	K		\mbfitK	mathematical bold italic capital k
U+1D473	L	L	L	L	L	L	L		\mbfitL	mathematical bold italic capital l
U+1D474	M	M	M	M	M	M	M		\mbfitM	mathematical bold italic capital m
U+1D475	N	N	N	N	N	N	N		\mbfitN	mathematical bold italic capital n
U+1D476	O	O	O	O	O	O	O		\mbfitO	mathematical bold italic capital o
U+1D477	P	P	P	P	P	P	P		\mbfitP	mathematical bold italic capital p
U+1D478	Q	Q	Q	Q	Q	Q	Q		\mbfitQ	mathematical bold italic capital q

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D479	<b>R</b>	<b>R</b>	<b>R</b>	<b>R</b>	<b>R</b>	<b>R</b>	<b>R</b>		<code>\mbfitR</code>	mathematical bold italic capital r
U+1D47A	<b>S</b>	<b>S</b>	<b>S</b>	<b>S</b>	<b>S</b>	<b>S</b>	<b>S</b>		<code>\mbfitS</code>	mathematical bold italic capital s
U+1D47B	<b>T</b>	<b>T</b>	<b>T</b>	<b>T</b>	<b>T</b>	<b>T</b>	<b>T</b>		<code>\mbfitT</code>	mathematical bold italic capital t
U+1D47C	<b>U</b>	<b>U</b>	<b>U</b>	<b>U</b>	<b>U</b>	<b>U</b>	<b>U</b>		<code>\mbfitU</code>	mathematical bold italic capital u
U+1D47D	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>		<code>\mbfitV</code>	mathematical bold italic capital v
U+1D47E	<b>W</b>	<b>W</b>	<b>W</b>	<b>W</b>	<b>W</b>	<b>W</b>	<b>W</b>		<code>\mbfitW</code>	mathematical bold italic capital w
U+1D47F	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>		<code>\mbfitX</code>	mathematical bold italic capital x
U+1D480	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>		<code>\mbfitY</code>	mathematical bold italic capital y
U+1D481	<b>Z</b>	<b>Z</b>	<b>Z</b>	<b>Z</b>	<b>Z</b>	<b>Z</b>	<b>Z</b>		<code>\mbfitZ</code>	mathematical bold italic capital z

### 13.2.6 Bold italic, Latin, lowercase

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D482	<b>a</b>	<b>a</b>	<b>a</b>	<b>a</b>	<b>a</b>	<b>a</b>	<b>a</b>		<code>\mbfita</code>	mathematical bold italic small a
U+1D483	<b>b</b>	<b>b</b>	<b>b</b>	<b>b</b>	<b>b</b>	<b>b</b>	<b>b</b>		<code>\mbfitb</code>	mathematical bold italic small b
U+1D484	<b>c</b>	<b>c</b>	<b>c</b>	<b>c</b>	<b>c</b>	<b>c</b>	<b>c</b>		<code>\mbfitc</code>	mathematical bold italic small c
U+1D485	<b>d</b>	<b>d</b>	<b>d</b>	<b>d</b>	<b>d</b>	<b>d</b>	<b>d</b>		<code>\mbfitd</code>	mathematical bold italic small d
U+1D486	<b>e</b>	<b>e</b>	<b>e</b>	<b>e</b>	<b>e</b>	<b>e</b>	<b>e</b>		<code>\mbfite</code>	mathematical bold italic small e
U+1D487	<b>f</b>	<b>f</b>	<b>f</b>	<b>f</b>	<b>f</b>	<b>f</b>	<b>f</b>		<code>\mbfitf</code>	mathematical bold italic small f
U+1D488	<b>g</b>	<b>g</b>	<b>g</b>	<b>g</b>	<b>g</b>	<b>g</b>	<b>g</b>		<code>\mbfitg</code>	mathematical bold italic small g
U+1D489	<b>h</b>	<b>h</b>	<b>h</b>	<b>h</b>	<b>h</b>	<b>h</b>	<b>h</b>		<code>\mbfith</code>	mathematical bold italic small h
U+1D48A	<b>i</b>	<b>i</b>	<b>i</b>	<b>i</b>	<b>i</b>	<b>i</b>	<b>i</b>		<code>\mbfiti</code>	mathematical bold italic small i
U+1D48B	<b>j</b>	<b>j</b>	<b>j</b>	<b>j</b>	<b>j</b>	<b>j</b>	<b>j</b>		<code>\mbfitj</code>	mathematical bold italic small j
U+1D48C	<b>k</b>	<b>k</b>	<b>k</b>	<b>k</b>	<b>k</b>	<b>k</b>	<b>k</b>		<code>\mbfitk</code>	mathematical bold italic small k
U+1D48D	<b>l</b>	<b>l</b>	<b>l</b>	<b>l</b>	<b>l</b>	<b>l</b>	<b>l</b>		<code>\mbfitl</code>	mathematical bold italic small l

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D48E	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>		<code>\mbfitm</code>	mathematical bold italic small m
U+1D48F	<b>n</b>	<b>n</b>	<b>n</b>	<b>n</b>	<b>n</b>	<b>n</b>	<b>n</b>		<code>\mbfitn</code>	mathematical bold italic small n
U+1D490	<b>o</b>	<b>o</b>	<b>o</b>	<b>o</b>	<b>o</b>	<b>o</b>	<b>o</b>		<code>\mbfito</code>	mathematical bold italic small o
U+1D491	<b>p</b>	<b>p</b>	<b>p</b>	<b>p</b>	<b>p</b>	<b>p</b>	<b>p</b>		<code>\mbfitp</code>	mathematical bold italic small p
U+1D492	<b>q</b>	<b>q</b>	<b>q</b>	<b>q</b>	<b>q</b>	<b>q</b>	<b>q</b>		<code>\mbfitq</code>	mathematical bold italic small q
U+1D493	<b>r</b>	<b>r</b>	<b>r</b>	<b>r</b>	<b>r</b>	<b>r</b>	<b>r</b>		<code>\mbfitr</code>	mathematical bold italic small r
U+1D494	<b>s</b>	<b>s</b>	<b>s</b>	<b>s</b>	<b>s</b>	<b>s</b>	<b>s</b>		<code>\mbfits</code>	mathematical bold italic small s
U+1D495	<b>t</b>	<b>t</b>	<b>t</b>	<b>t</b>	<b>t</b>	<b>t</b>	<b>t</b>		<code>\mbfitt</code>	mathematical bold italic small t
U+1D496	<b>u</b>	<b>u</b>	<b>u</b>	<b>u</b>	<b>u</b>	<b>u</b>	<b>u</b>		<code>\mbfitu</code>	mathematical bold italic small u
U+1D497	<b>v</b>	<b>v</b>	<b>v</b>	<b>v</b>	<b>v</b>	<b>v</b>	<b>v</b>		<code>\mbfitv</code>	mathematical bold italic small v
U+1D498	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>		<code>\mbfitw</code>	mathematical bold italic small w
U+1D499	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>		<code>\mbfitx</code>	mathematical bold italic small x
U+1D49A	<b>y</b>	<b>y</b>	<b>y</b>	<b>y</b>	<b>y</b>	<b>y</b>	<b>y</b>		<code>\mbfity</code>	mathematical bold italic small y
U+1D49B	<b>z</b>	<b>z</b>	<b>z</b>	<b>z</b>	<b>z</b>	<b>z</b>	<b>z</b>		<code>\mbfitz</code>	mathematical bold italic small z

### 13.2.7 Bold italic Greek, uppercase

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D71C	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>		<code>\mbfitAlpha</code>	mathematical bold italic capital alpha
U+1D71D	<b>B</b>	<b>B</b>	<b>B</b>	<b>B</b>	<b>B</b>	<b>B</b>	<b>B</b>		<code>\mbfitBeta</code>	mathematical bold italic capital beta
U+1D71E	<b>Γ</b>	<b>Γ</b>	<b>Γ</b>	<b>Γ</b>	<b>Γ</b>	<b>Γ</b>	<b>Γ</b>		<code>\mbfitGamma</code>	mathematical bold italic capital gamma
U+1D71F	<b>Δ</b>	<b>Δ</b>	<b>Δ</b>	<b>Δ</b>	<b>Δ</b>	<b>Δ</b>	<b>Δ</b>		<code>\mbfitDelta</code>	mathematical bold italic capital delta
U+1D720	<b>E</b>	<b>E</b>	<b>E</b>	<b>E</b>	<b>E</b>	<b>E</b>	<b>E</b>		<code>\mbfitEpsilon</code>	mathematical bold italic capital epsilon
U+1D721	<b>Z</b>	<b>Z</b>	<b>Z</b>	<b>Z</b>	<b>Z</b>	<b>Z</b>	<b>Z</b>		<code>\mbfitZeta</code>	mathematical bold italic capital zeta
U+1D722	<b>H</b>	<b>H</b>	<b>H</b>	<b>H</b>	<b>H</b>	<b>H</b>	<b>H</b>		<code>\mbfitEta</code>	mathematical bold italic capital eta

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D723	<i>Θ</i>	<i>Θ</i>	<i>Θ</i>	<i>Θ</i>	<i>Θ</i>	<i>Θ</i>	<i>Θ</i>		<code>\mbfitTheta</code>	mathematical bold italic capital theta
U+1D724	<i>I</i>	<i>I</i>	<i>I</i>	<i>I</i>	<i>I</i>	<i>I</i>	<i>I</i>		<code>\mbfitIota</code>	mathematical bold italic capital iota
U+1D725	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>		<code>\mbfitKappa</code>	mathematical bold italic capital kappa
U+1D726	<i>Λ</i>	<i>Λ</i>	<i>Λ</i>	<i>Λ</i>	<i>Λ</i>	<i>Λ</i>	<i>Λ</i>		<code>\mbfitLambda</code>	mathematical bold italic capital lambda
U+1D727	<i>Μ</i>	<i>Μ</i>	<i>Μ</i>	<i>Μ</i>	<i>Μ</i>	<i>Μ</i>	<i>Μ</i>		<code>\mbfitMu</code>	mathematical bold italic capital mu
U+1D728	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>		<code>\mbfitNu</code>	mathematical bold italic capital nu
U+1D729	<i>Ξ</i>	<i>Ξ</i>	<i>Ξ</i>	<i>Ξ</i>	<i>Ξ</i>	<i>Ξ</i>	<i>Ξ</i>		<code>\mbfitXi</code>	mathematical bold italic capital xi
U+1D72A	<i>Ο</i>	<i>Ο</i>	<i>Ο</i>	<i>Ο</i>	<i>Ο</i>	<i>Ο</i>	<i>Ο</i>		<code>\mbfitOmicron</code>	mathematical bold italic capital omicron
U+1D72B	<i>Π</i>	<i>Π</i>	<i>Π</i>	<i>Π</i>	<i>Π</i>	<i>Π</i>	<i>Π</i>		<code>\mbfitPi</code>	mathematical bold italic capital pi
U+1D72C	<i>Ρ</i>	<i>Ρ</i>	<i>Ρ</i>	<i>Ρ</i>	<i>Ρ</i>	<i>Ρ</i>	<i>Ρ</i>		<code>\mbfitRho</code>	mathematical bold italic capital rho
U+1D72D	<i>Θ</i>	<i>Θ</i>	<i>Θ</i>	<i>Θ</i>	<i>Θ</i>	<i>Θ</i>	<i>Θ</i>		<code>\mbfitvarTheta</code>	mathematical bold italic capital theta symbol
U+1D72E	<i>Σ</i>	<i>Σ</i>	<i>Σ</i>	<i>Σ</i>	<i>Σ</i>	<i>Σ</i>	<i>Σ</i>		<code>\mbfitSigma</code>	mathematical bold italic capital sigma
U+1D72F	<i>Τ</i>	<i>Τ</i>	<i>Τ</i>	<i>Τ</i>	<i>Τ</i>	<i>Τ</i>	<i>Τ</i>		<code>\mbfitTau</code>	mathematical bold italic capital tau
U+1D730	<i>Υ</i>	<i>Υ</i>	<i>Υ</i>	<i>Υ</i>	<i>Υ</i>	<i>Υ</i>	<i>Υ</i>		<code>\mbfitUpsilon</code>	mathematical bold italic capital upsilon
U+1D731	<i>Φ</i>	<i>Φ</i>	<i>Φ</i>	<i>Φ</i>	<i>Φ</i>	<i>Φ</i>	<i>Φ</i>		<code>\mbfitPhi</code>	mathematical bold italic capital phi
U+1D732	<i>Χ</i>	<i>Χ</i>	<i>Χ</i>	<i>Χ</i>	<i>Χ</i>	<i>Χ</i>	<i>Χ</i>		<code>\mbfitChi</code>	mathematical bold italic capital chi
U+1D733	<i>Ψ</i>	<i>Ψ</i>	<i>Ψ</i>	<i>Ψ</i>	<i>Ψ</i>	<i>Ψ</i>	<i>Ψ</i>		<code>\mbfitPsi</code>	mathematical bold italic capital psi
U+1D734	<i>Ω</i>	<i>Ω</i>	<i>Ω</i>	<i>Ω</i>	<i>Ω</i>	<i>Ω</i>	<i>Ω</i>		<code>\mbfitOmega</code>	mathematical bold italic capital omega

### 13.2.8 Bold italic Greek, lowercase

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D736	<i>α</i>	<i>α</i>	<i>α</i>	<i>α</i>	<i>α</i>	<i>α</i>	<i>α</i>		<code>\mbfitalpha</code>	mathematical bold italic small alpha
U+1D737	<i>β</i>	<i>β</i>	<i>β</i>	<i>β</i>	<i>β</i>	<i>β</i>	<i>β</i>		<code>\mbfitbeta</code>	mathematical bold italic small beta
U+1D738	<i>γ</i>	<i>γ</i>	<i>γ</i>	<i>γ</i>	<i>γ</i>	<i>γ</i>	<i>γ</i>		<code>\mbfitgamma</code>	mathematical bold italic small gamma

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D739	$\delta$	$\delta$	$\delta$	$\delta$	$\delta$	$\delta$	$\delta$		<code>\mbfitdelta</code>	mathematical bold italic small delta
U+1D73A	$\varepsilon$	$\varepsilon$	$\varepsilon$	$\varepsilon$	$\varepsilon$	$\varepsilon$	$\varepsilon$		<code>\mbfitvarepsilon</code>	mathematical bold italic small varepsilon
U+1D73B	$\zeta$	$\zeta$	$\zeta$	$\zeta$	$\zeta$	$\zeta$	$\zeta$		<code>\mbfitzeta</code>	mathematical bold italic small zeta
U+1D73C	$\eta$	$\eta$	$\eta$	$\eta$	$\eta$	$\eta$	$\eta$		<code>\mbfiteta</code>	mathematical bold italic small eta
U+1D73D	$\theta$	$\theta$	$\theta$	$\theta$	$\theta$	$\theta$	$\theta$		<code>\mbfittheta</code>	mathematical bold italic small theta
U+1D73E	$\iota$	$\iota$	$\iota$	$\iota$	$\iota$	$\iota$	$\iota$		<code>\mbfitiota</code>	mathematical bold italic small iota
U+1D73F	$\kappa$	$\kappa$	$\kappa$	$\kappa$	$\kappa$	$\kappa$	$\kappa$		<code>\mbfitkappa</code>	mathematical bold italic small kappa
U+1D740	$\lambda$	$\lambda$	$\lambda$	$\lambda$	$\lambda$	$\lambda$	$\lambda$		<code>\mbfitlambda</code>	mathematical bold italic small lambda
U+1D741	$\mu$	$\mu$	$\mu$	$\mu$	$\mu$	$\mu$	$\mu$		<code>\mbfitmu</code>	mathematical bold italic small mu
U+1D742	$\nu$	$\nu$	$\nu$	$\nu$	$\nu$	$\nu$	$\nu$		<code>\mbfitnu</code>	mathematical bold italic small nu
U+1D743	$\xi$	$\xi$	$\xi$	$\xi$	$\xi$	$\xi$	$\xi$		<code>\mbfitxi</code>	mathematical bold italic small xi
U+1D744	$\omicron$	$\omicron$	$\omicron$	$\omicron$	$\omicron$	$\omicron$	$\omicron$		<code>\mbfitomicron</code>	mathematical bold italic small omicron
U+1D745	$\pi$	$\pi$	$\pi$	$\pi$	$\pi$	$\pi$	$\pi$		<code>\mbfitpi</code>	mathematical bold italic small pi
U+1D746	$\rho$	$\rho$	$\rho$	$\rho$	$\rho$	$\rho$	$\rho$		<code>\mbfitrho</code>	mathematical bold italic small rho
U+1D747	$\varsigma$	$\varsigma$	$\varsigma$	$\varsigma$	$\varsigma$	$\varsigma$	$\varsigma$		<code>\mbfitvarsigma</code>	mathematical bold italic small final sigma
U+1D748	$\sigma$	$\sigma$	$\sigma$	$\sigma$	$\sigma$	$\sigma$	$\sigma$		<code>\mbfitsigma</code>	mathematical bold italic small sigma
U+1D749	$\tau$	$\tau$	$\tau$	$\tau$	$\tau$	$\tau$	$\tau$		<code>\mbfittau</code>	mathematical bold italic small tau
U+1D74A	$\upsilon$	$\upsilon$	$\upsilon$	$\upsilon$	$\upsilon$	$\upsilon$	$\upsilon$		<code>\mbfitupsilon</code>	mathematical bold italic small upsilon
U+1D74B	$\varphi$	$\varphi$	$\varphi$	$\varphi$	$\varphi$	$\varphi$	$\varphi$		<code>\mbfitvarphi</code>	mathematical bold italic small phi
U+1D74C	$\chi$	$\chi$	$\chi$	$\chi$	$\chi$	$\chi$	$\chi$		<code>\mbfitchi</code>	mathematical bold italic small chi
U+1D74D	$\psi$	$\psi$	$\psi$	$\psi$	$\psi$	$\psi$	$\psi$		<code>\mbfitpsi</code>	mathematical bold italic small psi
U+1D74E	$\omega$	$\omega$	$\omega$	$\omega$	$\omega$	$\omega$	$\omega$		<code>\mbfitomega</code>	mathematical bold italic small omega
U+1D74F	$\partial$	$\partial$	$\partial$	$\partial$	$\partial$	$\partial$	$\partial$		<code>\mbfitpartial</code>	mathematical bold italic partial differential
U+1D750	$\epsilon$	$\epsilon$	$\epsilon$	$\epsilon$	$\epsilon$	$\epsilon$	$\epsilon$		<code>\mbfitepsilon</code>	mathematical bold italic varepsilon symbol



USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D751	<i>ϑ</i>	<i>ϑ</i>	<i>ϑ</i>	<i>ϑ</i>	<i>ϑ</i>	<i>ϑ</i>	<i>ϑ</i>		<code>\mbfitvartheta</code>	mathematical bold italic theta symbol
U+1D752	<i>κ</i>	<i>κ</i>	<i>κ</i>	<i>κ</i>	<i>κ</i>	<i>κ</i>	<i>κ</i>		<code>\mbfitvarkappa</code>	mathematical bold italic kappa symbol
U+1D753	<i>ϕ</i>	<i>ϕ</i>	<i>ϕ</i>	<i>ϕ</i>	<i>ϕ</i>	<i>ϕ</i>	<i>ϕ</i>		<code>\mbfitphi</code>	mathematical bold italic phi symbol
U+1D754	<i>ρ</i>	<i>ρ</i>	<i>ρ</i>	<i>ρ</i>	<i>ρ</i>	<i>ρ</i>	<i>ρ</i>		<code>\mbfitvarrho</code>	mathematical bold italic rho symbol
U+1D755	<i>π</i>	<i>π</i>	<i>π</i>	<i>π</i>	<i>π</i>	<i>π</i>	<i>π</i>		<code>\mbfitvarpi</code>	mathematical bold italic pi symbol

### 13.2.9 Bold script, Latin, uppercase

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D4D0	<i>A</i>	<i>A</i>	<i>A</i>	<i>A</i>	<i>A</i>	<i>A</i>	<i>A</i>	<i>A</i>	<code>\mbfscrA</code>	mathematical bold script capital a
U+1D4D1	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<code>\mbfscrB</code>	mathematical bold script capital b
U+1D4D2	<i>C</i>	<i>C</i>	<i>C</i>	<i>C</i>	<i>C</i>	<i>C</i>	<i>C</i>	<i>C</i>	<code>\mbfscrC</code>	mathematical bold script capital c
U+1D4D3	<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>	<code>\mbfscrD</code>	mathematical bold script capital d
U+1D4D4	<i>E</i>	<i>E</i>	<i>E</i>	<i>E</i>	<i>E</i>	<i>E</i>	<i>E</i>	<i>E</i>	<code>\mbfscrE</code>	mathematical bold script capital e
U+1D4D5	<i>F</i>	<i>F</i>	<i>F</i>	<i>F</i>	<i>F</i>	<i>F</i>	<i>F</i>	<i>F</i>	<code>\mbfscrF</code>	mathematical bold script capital f
U+1D4D6	<i>G</i>	<i>G</i>	<i>G</i>	<i>G</i>	<i>G</i>	<i>G</i>	<i>G</i>	<i>G</i>	<code>\mbfscrG</code>	mathematical bold script capital g
U+1D4D7	<i>H</i>	<i>H</i>	<i>H</i>	<i>H</i>	<i>H</i>	<i>H</i>	<i>H</i>	<i>H</i>	<code>\mbfscrH</code>	mathematical bold script capital h
U+1D4D8	<i>I</i>	<i>I</i>	<i>I</i>	<i>I</i>	<i>I</i>	<i>I</i>	<i>I</i>	<i>I</i>	<code>\mbfscrI</code>	mathematical bold script capital i
U+1D4D9	<i>J</i>	<i>J</i>	<i>J</i>	<i>J</i>	<i>J</i>	<i>J</i>	<i>J</i>	<i>J</i>	<code>\mbfscrJ</code>	mathematical bold script capital j
U+1D4DA	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>	<code>\mbfscrK</code>	mathematical bold script capital k
U+1D4DB	<i>L</i>	<i>L</i>	<i>L</i>	<i>L</i>	<i>L</i>	<i>L</i>	<i>L</i>	<i>L</i>	<code>\mbfscrL</code>	mathematical bold script capital l
U+1D4DC	<i>M</i>	<i>M</i>	<i>M</i>	<i>M</i>	<i>M</i>	<i>M</i>	<i>M</i>	<i>M</i>	<code>\mbfscrM</code>	mathematical bold script capital m
U+1D4DD	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<code>\mbfscrN</code>	mathematical bold script capital n
U+1D4DE	<i>O</i>	<i>O</i>	<i>O</i>	<i>O</i>	<i>O</i>	<i>O</i>	<i>O</i>	<i>O</i>	<code>\mbfscrO</code>	mathematical bold script capital o
U+1D4DF	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<code>\mbfscrP</code>	mathematical bold script capital p

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D4E0	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>	<code>\mbfscrQ</code>	mathematical bold script capital q
U+1D4E1	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<code>\mbfscrR</code>	mathematical bold script capital r
U+1D4E2	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<code>\mbfscrS</code>	mathematical bold script capital s
U+1D4E3	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>	<code>\mbfscrT</code>	mathematical bold script capital t
U+1D4E4	<i>U</i>	<i>U</i>	<i>U</i>	<i>U</i>	<i>U</i>	<i>U</i>	<i>U</i>	<i>U</i>	<code>\mbfscrU</code>	mathematical bold script capital u
U+1D4E5	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	<code>\mbfscrV</code>	mathematical bold script capital v
U+1D4E6	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<code>\mbfscrW</code>	mathematical bold script capital w
U+1D4E7	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<code>\mbfscrX</code>	mathematical bold script capital x
U+1D4E8	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<code>\mbfscrY</code>	mathematical bold script capital y
U+1D4E9	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	<code>\mbfscrZ</code>	mathematical bold script capital z

### 13.2.10 Bold script, Latin, lowercase

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D4EA	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>		<code>\mbfscra</code>	mathematical bold script small a
U+1D4EB	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>		<code>\mbfscrb</code>	mathematical bold script small b
U+1D4EC	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>		<code>\mbfscrc</code>	mathematical bold script small c
U+1D4ED	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>		<code>\mbfscrd</code>	mathematical bold script small d
U+1D4EE	<i>e</i>	<i>e</i>	<i>e</i>	<i>e</i>	<i>e</i>	<i>e</i>	<i>e</i>		<code>\mbfscre</code>	mathematical bold script small e
U+1D4EF	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>		<code>\mbfscrf</code>	mathematical bold script small f
U+1D4F0	<i>g</i>	<i>g</i>	<i>g</i>	<i>g</i>	<i>g</i>	<i>g</i>	<i>g</i>		<code>\mbfscrg</code>	mathematical bold script small g
U+1D4F1	<i>h</i>	<i>h</i>	<i>h</i>	<i>h</i>	<i>h</i>	<i>h</i>	<i>h</i>		<code>\mbfscrh</code>	mathematical bold script small h
U+1D4F2	<i>i</i>	<i>i</i>	<i>i</i>	<i>i</i>	<i>i</i>	<i>i</i>	<i>i</i>		<code>\mbfscri</code>	mathematical bold script small i
U+1D4F3	<i>j</i>	<i>j</i>	<i>j</i>	<i>j</i>	<i>j</i>	<i>j</i>	<i>j</i>		<code>\mbfscrj</code>	mathematical bold script small j
U+1D4F4	<i>k</i>	<i>k</i>	<i>k</i>	<i>k</i>	<i>k</i>	<i>k</i>	<i>k</i>		<code>\mbfscrk</code>	mathematical bold script small k

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D4F5		<i>ℓ</i>	<i>ℓ</i>	<i>ℓ</i>	<i>ℓ</i>	<i>ℓ</i>	<i>ℓ</i>		<code>\mbfscr1</code>	mathematical bold script small l
U+1D4F6		<i>m</i>	<i>m</i>	<i>m</i>	<i>m</i>	<i>m</i>	<i>m</i>		<code>\mbfscrm</code>	mathematical bold script small m
U+1D4F7		<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>		<code>\mbfscrn</code>	mathematical bold script small n
U+1D4F8		<i>o</i>	<i>o</i>	<i>o</i>	<i>o</i>	<i>o</i>	<i>o</i>		<code>\mbfscro</code>	mathematical bold script small o
U+1D4F9		<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>		<code>\mbfscrp</code>	mathematical bold script small p
U+1D4FA		<i>q</i>	<i>q</i>	<i>q</i>	<i>q</i>	<i>q</i>	<i>q</i>		<code>\mbfscrq</code>	mathematical bold script small q
U+1D4FB		<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>		<code>\mbfscrr</code>	mathematical bold script small r
U+1D4FC		<i>s</i>	<i>s</i>	<i>s</i>	<i>s</i>	<i>s</i>	<i>s</i>		<code>\mbfscrs</code>	mathematical bold script small s
U+1D4FD		<i>t</i>	<i>t</i>	<i>t</i>	<i>t</i>	<i>t</i>	<i>t</i>		<code>\mbfscrt</code>	mathematical bold script small t
U+1D4FE		<i>u</i>	<i>u</i>	<i>u</i>	<i>u</i>	<i>u</i>	<i>u</i>		<code>\mbfscru</code>	mathematical bold script small u
U+1D4FF		<i>v</i>	<i>v</i>	<i>v</i>	<i>v</i>	<i>v</i>	<i>v</i>		<code>\mbfscrv</code>	mathematical bold script small v
U+1D500		<i>w</i>	<i>w</i>	<i>w</i>	<i>w</i>	<i>w</i>	<i>w</i>		<code>\mbfscrw</code>	mathematical bold script small w
U+1D501		<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>		<code>\mbfscrx</code>	mathematical bold script small x
U+1D502		<i>y</i>	<i>y</i>	<i>y</i>	<i>y</i>	<i>y</i>	<i>y</i>		<code>\mbfscry</code>	mathematical bold script small y
U+1D503		<i>z</i>	<i>z</i>	<i>z</i>	<i>z</i>	<i>z</i>	<i>z</i>		<code>\mbfscrz</code>	mathematical bold script small z

### 13.2.11 Bold fraktur, Latin, uppercase

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D56C	<i>A</i>	<i>A</i>	<i>A</i>	<i>A</i>	<i>A</i>	<i>A</i>	<i>A</i>	<i>A</i>	<code>\mbffrakA</code>	mathematical bold fraktur capital a
U+1D56D	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<code>\mbffrakB</code>	mathematical bold fraktur capital b
U+1D56E	<i>C</i>	<i>C</i>	<i>C</i>	<i>C</i>	<i>C</i>	<i>C</i>	<i>C</i>	<i>C</i>	<code>\mbffrakC</code>	mathematical bold fraktur capital c
U+1D56F	<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>	<code>\mbffrakD</code>	mathematical bold fraktur capital d
U+1D570	<i>E</i>	<i>E</i>	<i>E</i>	<i>E</i>	<i>E</i>	<i>E</i>	<i>E</i>	<i>E</i>	<code>\mbffrakE</code>	mathematical bold fraktur capital e
U+1D571	<i>F</i>	<i>F</i>	<i>F</i>	<i>F</i>	<i>F</i>	<i>F</i>	<i>F</i>	<i>F</i>	<code>\mbffrakF</code>	mathematical bold fraktur capital f

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D572									<code>\mbffrakG</code>	mathematical bold fraktur capital g
U+1D573									<code>\mbffrakH</code>	mathematical bold fraktur capital h
U+1D574									<code>\mbffrakI</code>	mathematical bold fraktur capital i
U+1D575									<code>\mbffrakJ</code>	mathematical bold fraktur capital j
U+1D576									<code>\mbffrakK</code>	mathematical bold fraktur capital k
U+1D577									<code>\mbffrakL</code>	mathematical bold fraktur capital l
U+1D578									<code>\mbffrakM</code>	mathematical bold fraktur capital m
U+1D579									<code>\mbffrakN</code>	mathematical bold fraktur capital n
U+1D57A									<code>\mbffrakO</code>	mathematical bold fraktur capital o
U+1D57B									<code>\mbffrakP</code>	mathematical bold fraktur capital p
U+1D57C									<code>\mbffrakQ</code>	mathematical bold fraktur capital q
U+1D57D									<code>\mbffrakR</code>	mathematical bold fraktur capital r
U+1D57E									<code>\mbffrakS</code>	mathematical bold fraktur capital s
U+1D57F									<code>\mbffrakT</code>	mathematical bold fraktur capital t
U+1D580									<code>\mbffrakU</code>	mathematical bold fraktur capital u
U+1D581									<code>\mbffrakV</code>	mathematical bold fraktur capital v
U+1D582									<code>\mbffrakW</code>	mathematical bold fraktur capital w
U+1D583									<code>\mbffrakX</code>	mathematical bold fraktur capital x
U+1D584									<code>\mbffrakY</code>	mathematical bold fraktur capital y
U+1D585									<code>\mbffrakZ</code>	mathematical bold fraktur capital z

### 13.2.12 Bold fraktur, Latin, lowercase

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D586									<code>\mbffraka</code>	mathematical bold fraktur small a

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D587	<b>ḃ</b>	<b>Ḅ</b>	<b>ḅ</b>	<b>Ḇ</b>	<b>ḇ</b>	<b>Ḉ</b>	<b>ḉ</b>	<b>Ḋ</b>	<code>\mbffrakb</code>	mathematical bold fraktur small b
U+1D588	<b>ḋ</b>	<b>Ḍ</b>	<b>ḅ</b>	<b>Ḇ</b>	<b>ḇ</b>	<b>Ḉ</b>	<b>ḉ</b>	<b>Ḋ</b>	<code>\mbffrakc</code>	mathematical bold fraktur small c
U+1D589	<b>Ḋ</b>	<b>Ḅ</b>	<b>ḅ</b>	<b>Ḇ</b>	<b>ḇ</b>	<b>Ḉ</b>	<b>ḉ</b>	<b>Ḋ</b>	<code>\mbffrakd</code>	mathematical bold fraktur small d
U+1D58A	<b>ḋ</b>	<b>Ḍ</b>	<b>ḅ</b>	<b>Ḇ</b>	<b>ḇ</b>	<b>Ḉ</b>	<b>ḉ</b>	<b>Ḋ</b>	<code>\mbffrake</code>	mathematical bold fraktur small e
U+1D58B	<b>Ḋ</b>	<b>Ḅ</b>	<b>ḅ</b>	<b>Ḇ</b>	<b>ḇ</b>	<b>Ḉ</b>	<b>ḉ</b>	<b>Ḋ</b>	<code>\mbffrakf</code>	mathematical bold fraktur small f
U+1D58C	<b>ḋ</b>	<b>Ḍ</b>	<b>ḅ</b>	<b>Ḇ</b>	<b>ḇ</b>	<b>Ḉ</b>	<b>ḉ</b>	<b>Ḋ</b>	<code>\mbffrakg</code>	mathematical bold fraktur small g
U+1D58D	<b>Ḋ</b>	<b>Ḅ</b>	<b>ḅ</b>	<b>Ḇ</b>	<b>ḇ</b>	<b>Ḉ</b>	<b>ḉ</b>	<b>Ḋ</b>	<code>\mbffrakh</code>	mathematical bold fraktur small h
U+1D58E	<b>ḋ</b>	<b>Ḍ</b>	<b>ḅ</b>	<b>Ḇ</b>	<b>ḇ</b>	<b>Ḉ</b>	<b>ḉ</b>	<b>Ḋ</b>	<code>\mbffraki</code>	mathematical bold fraktur small i
U+1D58F	<b>Ḋ</b>	<b>Ḅ</b>	<b>ḅ</b>	<b>Ḇ</b>	<b>ḇ</b>	<b>Ḉ</b>	<b>ḉ</b>	<b>Ḋ</b>	<code>\mbffrakj</code>	mathematical bold fraktur small j
U+1D590	<b>ḋ</b>	<b>Ḍ</b>	<b>ḅ</b>	<b>Ḇ</b>	<b>ḇ</b>	<b>Ḉ</b>	<b>ḉ</b>	<b>Ḋ</b>	<code>\mbffrakk</code>	mathematical bold fraktur small k
U+1D591	<b>ḋ</b>	<b>Ḍ</b>	<b>ḅ</b>	<b>Ḇ</b>	<b>ḇ</b>	<b>Ḉ</b>	<b>ḉ</b>	<b>Ḋ</b>	<code>\mbffrakl</code>	mathematical bold fraktur small l
U+1D592	<b>ḋ</b>	<b>Ḍ</b>	<b>ḅ</b>	<b>Ḇ</b>	<b>ḇ</b>	<b>Ḉ</b>	<b>ḉ</b>	<b>Ḋ</b>	<code>\mbffrakm</code>	mathematical bold fraktur small m
U+1D593	<b>ḋ</b>	<b>Ḍ</b>	<b>ḅ</b>	<b>Ḇ</b>	<b>ḇ</b>	<b>Ḉ</b>	<b>ḉ</b>	<b>Ḋ</b>	<code>\mbffrakn</code>	mathematical bold fraktur small n
U+1D594	<b>ḋ</b>	<b>Ḍ</b>	<b>ḅ</b>	<b>Ḇ</b>	<b>ḇ</b>	<b>Ḉ</b>	<b>ḉ</b>	<b>Ḋ</b>	<code>\mbffrako</code>	mathematical bold fraktur small o
U+1D595	<b>ḋ</b>	<b>Ḍ</b>	<b>ḅ</b>	<b>Ḇ</b>	<b>ḇ</b>	<b>Ḉ</b>	<b>ḉ</b>	<b>Ḋ</b>	<code>\mbffrakp</code>	mathematical bold fraktur small p
U+1D596	<b>ḋ</b>	<b>Ḍ</b>	<b>ḅ</b>	<b>Ḇ</b>	<b>ḇ</b>	<b>Ḉ</b>	<b>ḉ</b>	<b>Ḋ</b>	<code>\mbffrakq</code>	mathematical bold fraktur small q
U+1D597	<b>ḋ</b>	<b>Ḍ</b>	<b>ḅ</b>	<b>Ḇ</b>	<b>ḇ</b>	<b>Ḉ</b>	<b>ḉ</b>	<b>Ḋ</b>	<code>\mbffrakr</code>	mathematical bold fraktur small r
U+1D598	<b>ḋ</b>	<b>Ḍ</b>	<b>ḅ</b>	<b>Ḇ</b>	<b>ḇ</b>	<b>Ḉ</b>	<b>ḉ</b>	<b>Ḋ</b>	<code>\mbffraks</code>	mathematical bold fraktur small s
U+1D599	<b>ḋ</b>	<b>Ḍ</b>	<b>ḅ</b>	<b>Ḇ</b>	<b>ḇ</b>	<b>Ḉ</b>	<b>ḉ</b>	<b>Ḋ</b>	<code>\mbffrakt</code>	mathematical bold fraktur small t
U+1D59A	<b>ḋ</b>	<b>Ḍ</b>	<b>ḅ</b>	<b>Ḇ</b>	<b>ḇ</b>	<b>Ḉ</b>	<b>ḉ</b>	<b>Ḋ</b>	<code>\mbffraku</code>	mathematical bold fraktur small u
U+1D59B	<b>ḋ</b>	<b>Ḍ</b>	<b>ḅ</b>	<b>Ḇ</b>	<b>ḇ</b>	<b>Ḉ</b>	<b>ḉ</b>	<b>Ḋ</b>	<code>\mbffrakv</code>	mathematical bold fraktur small v
U+1D59C	<b>ḋ</b>	<b>Ḍ</b>	<b>ḅ</b>	<b>Ḇ</b>	<b>ḇ</b>	<b>Ḉ</b>	<b>ḉ</b>	<b>Ḋ</b>	<code>\mbffrakw</code>	mathematical bold fraktur small w
U+1D59D	<b>ḋ</b>	<b>Ḍ</b>	<b>ḅ</b>	<b>Ḇ</b>	<b>ḇ</b>	<b>Ḉ</b>	<b>ḉ</b>	<b>Ḋ</b>	<code>\mbffrakx</code>	mathematical bold fraktur small x
U+1D59E	<b>ḋ</b>	<b>Ḍ</b>	<b>ḅ</b>	<b>Ḇ</b>	<b>ḇ</b>	<b>Ḉ</b>	<b>ḉ</b>	<b>Ḋ</b>	<code>\mbffraky</code>	mathematical bold fraktur small y

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D59F	<b>z</b>	<b>z</b>	<b>z</b>	<b>z</b>	<b>z</b>	<b>z</b>	<b>z</b>	<b>z</b>	<code>\mbffrakz</code>	mathematical bold fraktur small z

### 13.2.13 Bold sans serif, Latin, uppercase

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D5D4	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>		<code>\mbfsansA</code>	mathematical sans-serif bold capital a
U+1D5D5	<b>B</b>	<b>B</b>	<b>B</b>	<b>B</b>	<b>B</b>	<b>B</b>	<b>B</b>		<code>\mbfsansB</code>	mathematical sans-serif bold capital b
U+1D5D6	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>		<code>\mbfsansC</code>	mathematical sans-serif bold capital c
U+1D5D7	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>		<code>\mbfsansD</code>	mathematical sans-serif bold capital d
U+1D5D8	<b>E</b>	<b>E</b>	<b>E</b>	<b>E</b>	<b>E</b>	<b>E</b>	<b>E</b>		<code>\mbfsansE</code>	mathematical sans-serif bold capital e
U+1D5D9	<b>F</b>	<b>F</b>	<b>F</b>	<b>F</b>	<b>F</b>	<b>F</b>	<b>F</b>		<code>\mbfsansF</code>	mathematical sans-serif bold capital f
U+1D5DA	<b>G</b>	<b>G</b>	<b>G</b>	<b>G</b>	<b>G</b>	<b>G</b>	<b>G</b>		<code>\mbfsansG</code>	mathematical sans-serif bold capital g
U+1D5DB	<b>H</b>	<b>H</b>	<b>H</b>	<b>H</b>	<b>H</b>	<b>H</b>	<b>H</b>		<code>\mbfsansH</code>	mathematical sans-serif bold capital h
U+1D5DC	<b>I</b>	<b>I</b>	<b>I</b>	<b>I</b>	<b>I</b>	<b>I</b>	<b>I</b>		<code>\mbfsansI</code>	mathematical sans-serif bold capital i
U+1D5DD	<b>J</b>	<b>J</b>	<b>J</b>	<b>J</b>	<b>J</b>	<b>J</b>	<b>J</b>		<code>\mbfsansJ</code>	mathematical sans-serif bold capital j
U+1D5DE	<b>K</b>	<b>K</b>	<b>K</b>	<b>K</b>	<b>K</b>	<b>K</b>	<b>K</b>		<code>\mbfsansK</code>	mathematical sans-serif bold capital k
U+1D5DF	<b>L</b>	<b>L</b>	<b>L</b>	<b>L</b>	<b>L</b>	<b>L</b>	<b>L</b>		<code>\mbfsansL</code>	mathematical sans-serif bold capital l
U+1D5E0	<b>M</b>	<b>M</b>	<b>M</b>	<b>M</b>	<b>M</b>	<b>M</b>	<b>M</b>		<code>\mbfsansM</code>	mathematical sans-serif bold capital m
U+1D5E1	<b>N</b>	<b>N</b>	<b>N</b>	<b>N</b>	<b>N</b>	<b>N</b>	<b>N</b>		<code>\mbfsansN</code>	mathematical sans-serif bold capital n
U+1D5E2	<b>O</b>	<b>O</b>	<b>O</b>	<b>O</b>	<b>O</b>	<b>O</b>	<b>O</b>		<code>\mbfsansO</code>	mathematical sans-serif bold capital o
U+1D5E3	<b>P</b>	<b>P</b>	<b>P</b>	<b>P</b>	<b>P</b>	<b>P</b>	<b>P</b>		<code>\mbfsansP</code>	mathematical sans-serif bold capital p
U+1D5E4	<b>Q</b>	<b>Q</b>	<b>Q</b>	<b>Q</b>	<b>Q</b>	<b>Q</b>	<b>Q</b>		<code>\mbfsansQ</code>	mathematical sans-serif bold capital q
U+1D5E5	<b>R</b>	<b>R</b>	<b>R</b>	<b>R</b>	<b>R</b>	<b>R</b>	<b>R</b>		<code>\mbfsansR</code>	mathematical sans-serif bold capital r
U+1D5E6	<b>S</b>	<b>S</b>	<b>S</b>	<b>S</b>	<b>S</b>	<b>S</b>	<b>S</b>		<code>\mbfsansS</code>	mathematical sans-serif bold capital s
U+1D5E7	<b>T</b>	<b>T</b>	<b>T</b>	<b>T</b>	<b>T</b>	<b>T</b>	<b>T</b>		<code>\mbfsansT</code>	mathematical sans-serif bold capital t

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D5E8	U	U	U	U	U	U	U		\mbfsansU	mathematical sans-serif bold capital u
U+1D5E9	V	V	V	V	V	V	V		\mbfsansV	mathematical sans-serif bold capital v
U+1D5EA	W	W	W	W	W	W	W		\mbfsansW	mathematical sans-serif bold capital w
U+1D5EB	X	X	X	X	X	X	X		\mbfsansX	mathematical sans-serif bold capital x
U+1D5EC	Y	Y	Y	Y	Y	Y	Y		\mbfsansY	mathematical sans-serif bold capital y
U+1D5ED	Z	Z	Z	Z	Z	Z	Z		\mbfsansZ	mathematical sans-serif bold capital z

### 13.2.14 Bold sans serif, Latin, lowercase

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D5EE	a	a	a	a	a	a	a		\mbfsansa	mathematical sans-serif bold small a
U+1D5EF	b	b	b	b	b	b	b		\mbfsansb	mathematical sans-serif bold small b
U+1D5F0	c	c	c	c	c	c	c		\mbfsansc	mathematical sans-serif bold small c
U+1D5F1	d	d	d	d	d	d	d		\mbfsansd	mathematical sans-serif bold small d
U+1D5F2	e	e	e	e	e	e	e		\mbfsanse	mathematical sans-serif bold small e
U+1D5F3	f	f	f	f	f	f	f		\mbfsansf	mathematical sans-serif bold small f
U+1D5F4	g	g	g	g	g	g	g		\mbfsansg	mathematical sans-serif bold small g
U+1D5F5	h	h	h	h	h	h	h		\mbfsansh	mathematical sans-serif bold small h
U+1D5F6	i	i	i	i	i	i	i		\mbfsansi	mathematical sans-serif bold small i
U+1D5F7	j	j	j	j	j	j	j		\mbfsansj	mathematical sans-serif bold small j
U+1D5F8	k	k	k	k	k	k	k		\mbfsansk	mathematical sans-serif bold small k
U+1D5F9	l	l	l	l	l	l	l		\mbfsansl	mathematical sans-serif bold small l
U+1D5FA	m	m	m	m	m	m	m		\mbfsansm	mathematical sans-serif bold small m
U+1D5FB	n	n	n	n	n	n	n		\mbfsansn	mathematical sans-serif bold small n
U+1D5FC	o	o	o	o	o	o	o		\mbfsanso	mathematical sans-serif bold small o

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D5FD	<b>p</b>	<b>p</b>	<b>p</b>	<b>p</b>	<b>p</b>	<b>p</b>	<b>p</b>		<code>\mbfsansp</code>	mathematical sans-serif bold small p
U+1D5FE	<b>q</b>	<b>q</b>	<b>q</b>	<b>q</b>	<b>q</b>	<b>q</b>	<b>q</b>		<code>\mbfsansq</code>	mathematical sans-serif bold small q
U+1D5FF	<b>r</b>	<b>r</b>	<b>r</b>	<b>r</b>	<b>r</b>	<b>r</b>	<b>r</b>		<code>\mbfsansr</code>	mathematical sans-serif bold small r
U+1D600	<b>s</b>	<b>s</b>	<b>s</b>	<b>s</b>	<b>s</b>	<b>s</b>	<b>s</b>		<code>\mbfsanss</code>	mathematical sans-serif bold small s
U+1D601	<b>t</b>	<b>t</b>	<b>t</b>	<b>t</b>	<b>t</b>	<b>t</b>	<b>t</b>		<code>\mbfsanst</code>	mathematical sans-serif bold small t
U+1D602	<b>u</b>	<b>u</b>	<b>u</b>	<b>u</b>	<b>u</b>	<b>u</b>	<b>u</b>		<code>\mbfsansu</code>	mathematical sans-serif bold small u
U+1D603	<b>v</b>	<b>v</b>	<b>v</b>	<b>v</b>	<b>v</b>	<b>v</b>	<b>v</b>		<code>\mbfsansv</code>	mathematical sans-serif bold small v
U+1D604	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>		<code>\mbfsansw</code>	mathematical sans-serif bold small w
U+1D605	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>		<code>\mbfsansx</code>	mathematical sans-serif bold small x
U+1D606	<b>y</b>	<b>y</b>	<b>y</b>	<b>y</b>	<b>y</b>	<b>y</b>	<b>y</b>		<code>\mbfsansy</code>	mathematical sans-serif bold small y
U+1D607	<b>z</b>	<b>z</b>	<b>z</b>	<b>z</b>	<b>z</b>	<b>z</b>	<b>z</b>		<code>\mbfsansz</code>	mathematical sans-serif bold small z

### 13.2.15 Bold italic sans serif, Latin, uppercase

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D63C	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>		<code>\mbfitsansA</code>	mathematical sans-serif bold italic capital a
U+1D63D	<b>B</b>	<b>B</b>	<b>B</b>	<b>B</b>	<b>B</b>	<b>B</b>	<b>B</b>		<code>\mbfitsansB</code>	mathematical sans-serif bold italic capital b
U+1D63E	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>		<code>\mbfitsansC</code>	mathematical sans-serif bold italic capital c
U+1D63F	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>		<code>\mbfitsansD</code>	mathematical sans-serif bold italic capital d
U+1D640	<b>E</b>	<b>E</b>	<b>E</b>	<b>E</b>	<b>E</b>	<b>E</b>	<b>E</b>		<code>\mbfitsansE</code>	mathematical sans-serif bold italic capital e
U+1D641	<b>F</b>	<b>F</b>	<b>F</b>	<b>F</b>	<b>F</b>	<b>F</b>	<b>F</b>		<code>\mbfitsansF</code>	mathematical sans-serif bold italic capital f
U+1D642	<b>G</b>	<b>G</b>	<b>G</b>	<b>G</b>	<b>G</b>	<b>G</b>	<b>G</b>		<code>\mbfitsansG</code>	mathematical sans-serif bold italic capital g
U+1D643	<b>H</b>	<b>H</b>	<b>H</b>	<b>H</b>	<b>H</b>	<b>H</b>	<b>H</b>		<code>\mbfitsansH</code>	mathematical sans-serif bold italic capital h
U+1D644	<b>I</b>	<b>I</b>	<b>I</b>	<b>I</b>	<b>I</b>	<b>I</b>	<b>I</b>		<code>\mbfitsansI</code>	mathematical sans-serif bold italic capital i
U+1D645	<b>J</b>	<b>J</b>	<b>J</b>	<b>J</b>	<b>J</b>	<b>J</b>	<b>J</b>		<code>\mbfitsansJ</code>	mathematical sans-serif bold italic capital j



USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D646	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>		\mbfitsansK	mathematical sans-serif bold italic capital k
U+1D647	<i>L</i>	<i>L</i>	<i>L</i>	<i>L</i>	<i>L</i>	<i>L</i>	<i>L</i>		\mbfitsansL	mathematical sans-serif bold italic capital l
U+1D648	<i>M</i>	<i>M</i>	<i>M</i>	<i>M</i>	<i>M</i>	<i>M</i>	<i>M</i>		\mbfitsansM	mathematical sans-serif bold italic capital m
U+1D649	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>		\mbfitsansN	mathematical sans-serif bold italic capital n
U+1D64A	<i>O</i>	<i>O</i>	<i>O</i>	<i>O</i>	<i>O</i>	<i>O</i>	<i>O</i>		\mbfitsansO	mathematical sans-serif bold italic capital o
U+1D64B	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>		\mbfitsansP	mathematical sans-serif bold italic capital p
U+1D64C	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>		\mbfitsansQ	mathematical sans-serif bold italic capital q
U+1D64D	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>		\mbfitsansR	mathematical sans-serif bold italic capital r
U+1D64E	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>		\mbfitsansS	mathematical sans-serif bold italic capital s
U+1D64F	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>		\mbfitsansT	mathematical sans-serif bold italic capital t
U+1D650	<i>U</i>	<i>U</i>	<i>U</i>	<i>U</i>	<i>U</i>	<i>U</i>	<i>U</i>		\mbfitsansU	mathematical sans-serif bold italic capital u
U+1D651	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>		\mbfitsansV	mathematical sans-serif bold italic capital v
U+1D652	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>		\mbfitsansW	mathematical sans-serif bold italic capital w
U+1D653	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>		\mbfitsansX	mathematical sans-serif bold italic capital x
U+1D654	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>		\mbfitsansY	mathematical sans-serif bold italic capital y
U+1D655	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>		\mbfitsansZ	mathematical sans-serif bold italic capital z

### 13.2.16 Bold italic sans serif, Latin, lowercase

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D656	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>		\mbfitsansa	mathematical sans-serif bold italic small a
U+1D657	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>		\mbfitsansb	mathematical sans-serif bold italic small b
U+1D658	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>		\mbfitsansc	mathematical sans-serif bold italic small c
U+1D659	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>		\mbfitsansd	mathematical sans-serif bold italic small d
U+1D65A	<i>e</i>	<i>e</i>	<i>e</i>	<i>e</i>	<i>e</i>	<i>e</i>	<i>e</i>		\mbfitsanse	mathematical sans-serif bold italic small e

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D65B	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>		<code>\mbfitsansf</code>	mathematical sans-serif bold italic small f
U+1D65C	<i>g</i>	<i>g</i>	<i>g</i>	<i>g</i>	<i>g</i>	<i>g</i>	<i>g</i>		<code>\mbfitsansg</code>	mathematical sans-serif bold italic small g
U+1D65D	<i>h</i>	<i>h</i>	<i>h</i>	<i>h</i>	<i>h</i>	<i>h</i>	<i>h</i>		<code>\mbfitsansh</code>	mathematical sans-serif bold italic small h
U+1D65E	<i>i</i>	<i>i</i>	<i>i</i>	<i>i</i>	<i>i</i>	<i>i</i>	<i>i</i>		<code>\mbfitsansi</code>	mathematical sans-serif bold italic small i
U+1D65F	<i>j</i>	<i>j</i>	<i>j</i>	<i>j</i>	<i>j</i>	<i>j</i>	<i>j</i>		<code>\mbfitsansj</code>	mathematical sans-serif bold italic small j
U+1D660	<i>k</i>	<i>k</i>	<i>k</i>	<i>k</i>	<i>k</i>	<i>k</i>	<i>k</i>		<code>\mbfitsansk</code>	mathematical sans-serif bold italic small k
U+1D661	<i>l</i>	<i>l</i>	<i>l</i>	<i>l</i>	<i>l</i>	<i>l</i>	<i>l</i>		<code>\mbfitsansl</code>	mathematical sans-serif bold italic small l
U+1D662	<i>m</i>	<i>m</i>	<i>m</i>	<i>m</i>	<i>m</i>	<i>m</i>	<i>m</i>		<code>\mbfitsansm</code>	mathematical sans-serif bold italic small m
U+1D663	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>		<code>\mbfitsansn</code>	mathematical sans-serif bold italic small n
U+1D664	<i>o</i>	<i>o</i>	<i>o</i>	<i>o</i>	<i>o</i>	<i>o</i>	<i>o</i>		<code>\mbfitsanso</code>	mathematical sans-serif bold italic small o
U+1D665	<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>		<code>\mbfitsansp</code>	mathematical sans-serif bold italic small p
U+1D666	<i>q</i>	<i>q</i>	<i>q</i>	<i>q</i>	<i>q</i>	<i>q</i>	<i>q</i>		<code>\mbfitsansq</code>	mathematical sans-serif bold italic small q
U+1D667	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>		<code>\mbfitsansr</code>	mathematical sans-serif bold italic small r
U+1D668	<i>s</i>	<i>s</i>	<i>s</i>	<i>s</i>	<i>s</i>	<i>s</i>	<i>s</i>		<code>\mbfitsanss</code>	mathematical sans-serif bold italic small s
U+1D669	<i>t</i>	<i>t</i>	<i>t</i>	<i>t</i>	<i>t</i>	<i>t</i>	<i>t</i>		<code>\mbfitsanst</code>	mathematical sans-serif bold italic small t
U+1D66A	<i>u</i>	<i>u</i>	<i>u</i>	<i>u</i>	<i>u</i>	<i>u</i>	<i>u</i>		<code>\mbfitsansu</code>	mathematical sans-serif bold italic small u
U+1D66B	<i>v</i>	<i>v</i>	<i>v</i>	<i>v</i>	<i>v</i>	<i>v</i>	<i>v</i>		<code>\mbfitsansv</code>	mathematical sans-serif bold italic small v
U+1D66C	<i>w</i>	<i>w</i>	<i>w</i>	<i>w</i>	<i>w</i>	<i>w</i>	<i>w</i>		<code>\mbfitsansw</code>	mathematical sans-serif bold italic small w
U+1D66D	<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>		<code>\mbfitsansx</code>	mathematical sans-serif bold italic small x
U+1D66E	<i>y</i>	<i>y</i>	<i>y</i>	<i>y</i>	<i>y</i>	<i>y</i>	<i>y</i>		<code>\mbfitsansy</code>	mathematical sans-serif bold italic small y
U+1D66F	<i>z</i>	<i>z</i>	<i>z</i>	<i>z</i>	<i>z</i>	<i>z</i>	<i>z</i>		<code>\mbfitsansz</code>	mathematical sans-serif bold italic small z

### 13.2.17 Bold sans serif Greek, uppercase

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D756	Α	Α	Α		Α	Α	Α		\mbfsansAlpha	mathematical sans-serif bold capital alpha
U+1D757	Β	Β	Β		Β	Β	Β		\mbfsansBeta	mathematical sans-serif bold capital beta
U+1D758	Γ	Γ	Γ		Γ	Γ	Γ		\mbfsansGamma	mathematical sans-serif bold capital gamma
U+1D759	Δ	Δ	Δ		Δ	Δ	Δ		\mbfsansDelta	mathematical sans-serif bold capital delta
U+1D75A	Ε	Ε	Ε		Ε	Ε	Ε		\mbfsansEpsilon	mathematical sans-serif bold capital epsilon
U+1D75B	Ζ	Ζ	Ζ		Ζ	Ζ	Ζ		\mbfsansZeta	mathematical sans-serif bold capital zeta
U+1D75C	Η	Η	Η		Η	Η	Η		\mbfsansEta	mathematical sans-serif bold capital eta
U+1D75D	Θ	Θ	Θ		Θ	Θ	Θ		\mbfsansTheta	mathematical sans-serif bold capital theta
U+1D75E	Ι	Ι	Ι		Ι	Ι	Ι		\mbfsansIota	mathematical sans-serif bold capital iota
U+1D75F	Κ	Κ	Κ		Κ	Κ	Κ		\mbfsansKappa	mathematical sans-serif bold capital kappa
U+1D760	Λ	Λ	Λ		Λ	Λ	Λ		\mbfsansLambda	mathematical sans-serif bold capital lambda
U+1D761	Μ	Μ	Μ		Μ	Μ	Μ		\mbfsansMu	mathematical sans-serif bold capital mu
U+1D762	Ν	Ν	Ν		Ν	Ν	Ν		\mbfsansNu	mathematical sans-serif bold capital nu
U+1D763	Ξ	Ξ	Ξ		Ξ	Ξ	Ξ		\mbfsansXi	mathematical sans-serif bold capital xi
U+1D764	Ο	Ο	Ο		Ο	Ο	Ο		\mbfsansOmicron	mathematical sans-serif bold capital omicron
U+1D765	Π	Π	Π		Π	Π	Π		\mbfsansPi	mathematical sans-serif bold capital pi
U+1D766	Ρ	Ρ	Ρ		Ρ	Ρ	Ρ		\mbfsansRho	mathematical sans-serif bold capital rho
U+1D767	Θ	Θ	Θ		Θ	Θ	Θ		\mbfsansvarTheta	mathematical sans-serif bold capital theta symbol
U+1D768	Σ	Σ	Σ		Σ	Σ	Σ		\mbfsansSigma	mathematical sans-serif bold capital sigma
U+1D769	Τ	Τ	Τ		Τ	Τ	Τ		\mbfsansTau	mathematical sans-serif bold capital tau
U+1D76A	Υ	Υ	Υ		Υ	Υ	Υ		\mbfsansUpsilon	mathematical sans-serif bold capital upsilon
U+1D76B	Φ	Φ	Φ		Φ	Φ	Φ		\mbfsansPhi	mathematical sans-serif bold capital phi
U+1D76C	Χ	Χ	Χ		Χ	Χ	Χ		\mbfsansChi	mathematical sans-serif bold capital chi
U+1D76D	Ψ	Ψ	Ψ		Ψ	Ψ	Ψ		\mbfsansPsi	mathematical sans-serif bold capital psi

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D76E	Ω	Ω	Ω		Ω	Ω	Ω		\mbfsansOmega	mathematical sans-serif bold capital omega

### 13.2.18 Bold sans serif Greek, lowercase

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D770	α	α	α		α	α	α		\mbfsansalpha	mathematical sans-serif bold small alpha
U+1D771	β	β	β		β	β	β		\mbfsansbeta	mathematical sans-serif bold small beta
U+1D772	γ	γ	γ		γ	γ	γ		\mbfsansgamma	mathematical sans-serif bold small gamma
U+1D773	δ	δ	δ		δ	δ	δ		\mbfsansdelta	mathematical sans-serif bold small delta
U+1D774	ε	ε	ε		ε	ε	ε		\mbfsansvarepsilon	mathematical sans-serif bold small varepsilon
U+1D775	ζ	ζ	ζ		ζ	ζ	ζ		\mbfsanszeta	mathematical sans-serif bold small zeta
U+1D776	η	η	η		η	η	η		\mbfsanseta	mathematical sans-serif bold small eta
U+1D777	θ	θ	θ		θ	θ	θ		\mbfsanstheta	mathematical sans-serif bold small theta
U+1D778	ι	ι	ι		ι	ι	ι		\mbfsansiota	mathematical sans-serif bold small iota
U+1D779	κ	κ	κ		κ	κ	κ		\mbfsanskappa	mathematical sans-serif bold small kappa
U+1D77A	λ	λ	λ		λ	λ	λ		\mbfsanslambda	mathematical sans-serif bold small lambda
U+1D77B	μ	μ	μ		μ	μ	μ		\mbfsansmu	mathematical sans-serif bold small mu
U+1D77C	ν	ν	ν		ν	ν	ν		\mbfsansnu	mathematical sans-serif bold small nu
U+1D77D	ξ	ξ	ξ		ξ	ξ	ξ		\mbfsansxi	mathematical sans-serif bold small xi
U+1D77E	ο	ο	ο		ο	ο	ο		\mbfsansomicron	mathematical sans-serif bold small omicron
U+1D77F	π	π	π		π	π	π		\mbfsanspi	mathematical sans-serif bold small pi
U+1D780	ρ	ρ	ρ		ρ	ρ	ρ		\mbfsansrho	mathematical sans-serif bold small rho
U+1D781	ς	ς	ς		ς	ς	ς		\mbfsansvarsigma	mathematical sans-serif bold small final sigma
U+1D782	σ	σ	σ		σ	σ	σ		\mbfsanssigma	mathematical sans-serif bold small sigma
U+1D783	τ	τ	τ		τ	τ	τ		\mbfsanstau	mathematical sans-serif bold small tau

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D784	ϐ	ϑ	ϒ		ϕ	ϗ	ϙ		\mbfsansupsilon	mathematical sans-serif bold small upsilon
U+1D785	ϕ	ϗ	ϙ		ϕ	ϗ	ϙ		\mbfsansvarphi	mathematical sans-serif bold small phi
U+1D786	χ	χ	χ		χ	χ	χ		\mbfsanschi	mathematical sans-serif bold small chi
U+1D787	ψ	ψ	ψ		ψ	ψ	ψ		\mbfsanspsi	mathematical sans-serif bold small psi
U+1D788	ω	ω	ω		ω	ω	ω		\mbfsansomega	mathematical sans-serif bold small omega
U+1D789	∂	∂	∂		∂	∂	∂		\mbfsanspartial	mathematical sans-serif bold partial differential
U+1D78A	ϵ	ϵ	ϵ		ϵ	ϵ	ϵ		\mbfsansepsilon	mathematical sans-serif bold varepsilon symbol
U+1D78B	ϑ	ϑ	ϑ		ϑ	ϑ	ϑ		\mbfsansvartheta	mathematical sans-serif bold theta symbol
U+1D78C	κ	κ	κ		κ	κ	κ		\mbfsansvarkappa	mathematical sans-serif bold kappa symbol
U+1D78D	ϕ	ϕ	ϕ		ϕ	ϕ	ϕ		\mbfsansphi	mathematical sans-serif bold phi symbol
U+1D78E	ρ	ρ	ρ		ρ	ρ	ρ		\mbfsansvarrho	mathematical sans-serif bold rho symbol
U+1D78F	ω	ω	ω		ω	ω	ω		\mbfsansvarpi	mathematical sans-serif bold pi symbol

### 13.2.19 Bold italic sans serif Greek, uppercase

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D790	Α	Α	Α		Α	Α	Α		\mbfitsansAlpha	mathematical sans-serif bold italic capital alpha
U+1D791	Β	Β	Β		Β	Β	Β		\mbfitsansBeta	mathematical sans-serif bold italic capital beta
U+1D792	Γ	Γ	Γ		Γ	Γ	Γ		\mbfitsansGamma	mathematical sans-serif bold italic capital gamma
U+1D793	Δ	Δ	Δ		Δ	Δ	Δ		\mbfitsansDelta	mathematical sans-serif bold italic capital delta
U+1D794	Ε	Ε	Ε		Ε	Ε	Ε		\mbfitsansEpsilon	mathematical sans-serif bold italic capital epsilon
U+1D795	Ζ	Ζ	Ζ		Ζ	Ζ	Ζ		\mbfitsansZeta	mathematical sans-serif bold italic capital zeta
U+1D796	Η	Η	Η		Η	Η	Η		\mbfitsansEta	mathematical sans-serif bold italic capital eta
U+1D797	Θ	Θ	Θ		Θ	Θ	Θ		\mbfitsansTheta	mathematical sans-serif bold italic capital theta

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D798	<i>I</i>	<i>I</i>	<i>I</i>		<i>I</i>	<i>I</i>	<i>I</i>		\mbfitsansIota	mathematical sans-serif bold italic capital iota
U+1D799	<i>K</i>	<i>K</i>	<i>K</i>		<i>K</i>	<i>K</i>	<i>K</i>		\mbfitsansKappa	mathematical sans-serif bold italic capital kappa
U+1D79A	<i>Λ</i>	<i>Λ</i>	<i>Λ</i>		<i>Λ</i>	<i>Λ</i>	<i>Λ</i>		\mbfitsansLambda	mathematical sans-serif bold italic capital lambda
U+1D79B	<i>Μ</i>	<i>Μ</i>	<i>Μ</i>		<i>Μ</i>	<i>Μ</i>	<i>Μ</i>		\mbfitsansMu	mathematical sans-serif bold italic capital mu
U+1D79C	<i>Ν</i>	<i>Ν</i>	<i>Ν</i>		<i>Ν</i>	<i>Ν</i>	<i>Ν</i>		\mbfitsansNu	mathematical sans-serif bold italic capital nu
U+1D79D	<i>Ξ</i>	<i>Ξ</i>	<i>Ξ</i>		<i>Ξ</i>	<i>Ξ</i>	<i>Ξ</i>		\mbfitsansXi	mathematical sans-serif bold italic capital xi
U+1D79E	<i>Ο</i>	<i>Ο</i>	<i>Ο</i>		<i>Ο</i>	<i>Ο</i>	<i>Ο</i>		\mbfitsansOmicron	mathematical sans-serif bold italic capital omicron
U+1D79F	<i>Π</i>	<i>Π</i>	<i>Π</i>		<i>Π</i>	<i>Π</i>	<i>Π</i>		\mbfitsansPi	mathematical sans-serif bold italic capital pi
U+1D7A0	<i>Ρ</i>	<i>Ρ</i>	<i>Ρ</i>		<i>Ρ</i>	<i>Ρ</i>	<i>Ρ</i>		\mbfitsansRho	mathematical sans-serif bold italic capital rho
U+1D7A1	<i>Θ</i>	<i>Θ</i>	<i>Θ</i>		<i>Θ</i>	<i>Θ</i>	<i>Θ</i>		\mbfitsansvarTheta	mathematical sans-serif bold italic capital theta symbol
U+1D7A2	<i>Σ</i>	<i>Σ</i>	<i>Σ</i>		<i>Σ</i>	<i>Σ</i>	<i>Σ</i>		\mbfitsansSigma	mathematical sans-serif bold italic capital sigma
U+1D7A3	<i>Τ</i>	<i>Τ</i>	<i>Τ</i>		<i>Τ</i>	<i>Τ</i>	<i>Τ</i>		\mbfitsansTau	mathematical sans-serif bold italic capital tau
U+1D7A4	<i>Υ</i>	<i>Υ</i>	<i>Υ</i>		<i>Υ</i>	<i>Υ</i>	<i>Υ</i>		\mbfitsansUpsilon	mathematical sans-serif bold italic capital upsilon
U+1D7A5	<i>Φ</i>	<i>Φ</i>	<i>Φ</i>		<i>Φ</i>	<i>Φ</i>	<i>Φ</i>		\mbfitsansPhi	mathematical sans-serif bold italic capital phi
U+1D7A6	<i>Χ</i>	<i>Χ</i>	<i>Χ</i>		<i>Χ</i>	<i>Χ</i>	<i>Χ</i>		\mbfitsansChi	mathematical sans-serif bold italic capital chi
U+1D7A7	<i>Ψ</i>	<i>Ψ</i>	<i>Ψ</i>		<i>Ψ</i>	<i>Ψ</i>	<i>Ψ</i>		\mbfitsansPsi	mathematical sans-serif bold italic capital psi
U+1D7A8	<i>Ω</i>	<i>Ω</i>	<i>Ω</i>		<i>Ω</i>	<i>Ω</i>	<i>Ω</i>		\mbfitsansOmega	mathematical sans-serif bold italic capital omega

### 13.2.20 Bold italic sans serif Greek, lowercase

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D7AA	<i>α</i>	<i>α</i>	<i>α</i>		<i>α</i>	<i>α</i>	<i>α</i>		\mbfitsansalpha	mathematical sans-serif bold italic small alpha
U+1D7AB	<i>β</i>	<i>β</i>	<i>β</i>		<i>β</i>	<i>β</i>	<i>β</i>		\mbfitsansbeta	mathematical sans-serif bold italic small beta

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D7AC	<b>γ</b>	<b>γ</b>	<b>γ</b>		<b>γ</b>	<b>γ</b>	<b>γ</b>		<code>\mbfitsansgamma</code>	mathematical sans-serif bold italic small gamma
U+1D7AD	<b>δ</b>	<b>δ</b>	<b>δ</b>		<b>δ</b>	<b>δ</b>	<b>δ</b>		<code>\mbfitsansdelta</code>	mathematical sans-serif bold italic small delta
U+1D7AE	<b>ε</b>	<b>ε</b>	<b>ε</b>		<b>ε</b>	<b>ε</b>	<b>ε</b>		<code>\mbfitsansvarepsilon</code>	mathematical sans-serif bold italic small varepsilon
U+1D7AF	<b>ζ</b>	<b>ζ</b>	<b>ζ</b>		<b>ζ</b>	<b>ζ</b>	<b>ζ</b>		<code>\mbfitsanszeta</code>	mathematical sans-serif bold italic small zeta
U+1D7B0	<b>η</b>	<b>η</b>	<b>η</b>		<b>η</b>	<b>η</b>	<b>η</b>		<code>\mbfitsanseta</code>	mathematical sans-serif bold italic small eta
U+1D7B1	<b>θ</b>	<b>θ</b>	<b>θ</b>		<b>θ</b>	<b>θ</b>	<b>θ</b>		<code>\mbfitsanstheta</code>	mathematical sans-serif bold italic small theta
U+1D7B2	<b>ι</b>	<b>ι</b>	<b>ι</b>		<b>ι</b>	<b>ι</b>	<b>ι</b>		<code>\mbfitsansiota</code>	mathematical sans-serif bold italic small iota
U+1D7B3	<b>κ</b>	<b>κ</b>	<b>κ</b>		<b>κ</b>	<b>κ</b>	<b>κ</b>		<code>\mbfitsanskappa</code>	mathematical sans-serif bold italic small kappa
U+1D7B4	<b>λ</b>	<b>λ</b>	<b>λ</b>		<b>λ</b>	<b>λ</b>	<b>λ</b>		<code>\mbfitsanslambda</code>	mathematical sans-serif bold italic small lambda
U+1D7B5	<b>μ</b>	<b>μ</b>	<b>μ</b>		<b>μ</b>	<b>μ</b>	<b>μ</b>		<code>\mbfitsansmu</code>	mathematical sans-serif bold italic small mu
U+1D7B6	<b>ν</b>	<b>ν</b>	<b>ν</b>		<b>ν</b>	<b>ν</b>	<b>ν</b>		<code>\mbfitsansnu</code>	mathematical sans-serif bold italic small nu
U+1D7B7	<b>ξ</b>	<b>ξ</b>	<b>ξ</b>		<b>ξ</b>	<b>ξ</b>	<b>ξ</b>		<code>\mbfitsansxi</code>	mathematical sans-serif bold italic small xi
U+1D7B8	<b>ο</b>	<b>ο</b>	<b>ο</b>		<b>ο</b>	<b>ο</b>	<b>ο</b>		<code>\mbfitsansomicron</code>	mathematical sans-serif bold italic small omicron
U+1D7B9	<b>π</b>	<b>π</b>	<b>π</b>		<b>π</b>	<b>π</b>	<b>π</b>		<code>\mbfitsanspi</code>	mathematical sans-serif bold italic small pi
U+1D7BA	<b>ρ</b>	<b>ρ</b>	<b>ρ</b>		<b>ρ</b>	<b>ρ</b>	<b>ρ</b>		<code>\mbfitsansrho</code>	mathematical sans-serif bold italic small rho
U+1D7BB	<b>ς</b>	<b>ς</b>	<b>ς</b>		<b>ς</b>	<b>ς</b>	<b>ς</b>		<code>\mbfitsansvarsigma</code>	mathematical sans-serif bold italic small final sigma
U+1D7BC	<b>σ</b>	<b>σ</b>	<b>σ</b>		<b>σ</b>	<b>σ</b>	<b>σ</b>		<code>\mbfitsanssigma</code>	mathematical sans-serif bold italic small sigma
U+1D7BD	<b>τ</b>	<b>τ</b>	<b>τ</b>		<b>τ</b>	<b>τ</b>	<b>τ</b>		<code>\mbfitsanstau</code>	mathematical sans-serif bold italic small tau
U+1D7BE	<b>υ</b>	<b>υ</b>	<b>υ</b>		<b>υ</b>	<b>υ</b>	<b>υ</b>		<code>\mbfitsansupsilon</code>	mathematical sans-serif bold italic small upsilon
U+1D7BF	<b>φ</b>	<b>φ</b>	<b>φ</b>		<b>φ</b>	<b>φ</b>	<b>φ</b>		<code>\mbfitsansvarphi</code>	mathematical sans-serif bold italic small phi
U+1D7C0	<b>χ</b>	<b>χ</b>	<b>χ</b>		<b>χ</b>	<b>χ</b>	<b>χ</b>		<code>\mbfitsanschi</code>	mathematical sans-serif bold italic small chi
U+1D7C1	<b>ψ</b>	<b>ψ</b>	<b>ψ</b>		<b>ψ</b>	<b>ψ</b>	<b>ψ</b>		<code>\mbfitsanspsi</code>	mathematical sans-serif bold italic small psi

USV	M	X	S	C	A	P	D	E	Macro	Description
U+1D7C2	$\omega$	$\omega$	$\omega$		$\omega$	$\omega$	$\omega$		<code>\mbfitsansomega</code>	mathematical sans-serif bold italic small omega
U+1D7C3	$\partial$	$\partial$	$\partial$		$\partial$	$\partial$	$\partial$		<code>\mbfitsanspartial</code>	mathematical sans-serif bold italic partial differential
U+1D7C4	$\epsilon$	$\epsilon$	$\epsilon$		$\epsilon$	$\epsilon$	$\epsilon$		<code>\mbfitsansepsilon</code>	mathematical sans-serif bold italic varepsilon symbol
U+1D7C5	$\vartheta$	$\vartheta$	$\vartheta$		$\vartheta$	$\vartheta$	$\vartheta$		<code>\mbfitsansvartheta</code>	mathematical sans-serif bold italic theta symbol
U+1D7C6	$\varkappa$	$\varkappa$	$\varkappa$		$\varkappa$	$\varkappa$	$\varkappa$		<code>\mbfitsansvarkappa</code>	mathematical sans-serif bold italic kappa symbol
U+1D7C7	$\phi$	$\phi$	$\phi$		$\phi$	$\phi$	$\phi$		<code>\mbfitsansphi</code>	mathematical sans-serif bold italic phi symbol
U+1D7C8	$\varrho$	$\varrho$	$\varrho$		$\varrho$	$\varrho$	$\varrho$		<code>\mbfitsansvarrho</code>	mathematical sans-serif bold italic rho symbol
U+1D7C9	$\varpi$	$\varpi$	$\varpi$		$\varpi$	$\varpi$	$\varpi$		<code>\mbfitsansvarpi</code>	mathematical sans-serif bold italic pi symbol

### 13.3 Miscellaneous

USV	M	X	S	C	A	P	D	E	Macro	Description
U+000F0	$\eth$	$\eth$	$\eth$	$\eth$	$\eth$	$\eth$	$\eth$		<code>\matheth</code>	eth
U+02010	-	-	-	-		-	-		<code>\mathhyphen</code>	hyphen
U+02102	$\textcircled{C}$	$\textcircled{C}$	$\textcircled{C}$	$\textcircled{C}$	$\textcircled{C}$	$\textcircled{C}$	$\textcircled{C}$		<code>\BbbC</code>	/bbb c, open face c
U+0210A		$\mathscr{g}$	$\mathscr{g}$	$\mathscr{g}$	$\mathscr{g}$	$\mathscr{g}$	$\mathscr{g}$		<code>\mscrg</code>	/scr g, script letter g
U+0210B	$\mathcal{H}$	$\mathcal{H}$	$\mathcal{H}$	$\mathcal{H}$	$\mathcal{H}$	$\mathcal{H}$	$\mathcal{H}$	$\mathcal{H}$	<code>\mscrH</code>	hamiltonian (script capital h)
U+0210C	$\mathfrak{H}$	$\mathfrak{H}$	$\mathfrak{H}$	$\mathfrak{H}$	$\mathfrak{H}$	$\mathfrak{H}$	$\mathfrak{H}$	$\mathfrak{H}$	<code>\mfracH</code>	/frak h, upper case h
U+0210D	$\mathbb{H}$	$\mathbb{H}$	$\mathbb{H}$	$\mathbb{H}$	$\mathbb{H}$	$\mathbb{H}$	$\mathbb{H}$		<code>\BbbH</code>	/bbb h, open face h
U+0210F	$\hslash$	$\hslash$	$\hslash$	$\hslash$	$\hslash$	$\hslash$	$\hslash$	$\hslash$	<code>\hslash<sup>(a)</sup></code>	/hslash - variant planck's over 2pi
U+02110	$\mathscr{I}$	$\mathscr{I}$	$\mathscr{I}$	$\mathscr{I}$	$\mathscr{I}$	$\mathscr{I}$	$\mathscr{I}$	$\mathscr{I}$	<code>\mscrI</code>	/scr i, script letter i
U+02111	$\mathfrak{I}$	$\mathfrak{I}$	$\mathfrak{I}$	$\mathfrak{I}$	$\mathfrak{I}$	$\mathfrak{I}$	$\mathfrak{I}$	$\mathfrak{I}$	<code>\Im<sup>(p)</sup></code>	imaginary part
U+02112	$\mathcal{L}$	$\mathcal{L}$	$\mathcal{L}$	$\mathcal{L}$	$\mathcal{L}$	$\mathcal{L}$	$\mathcal{L}$	$\mathcal{L}$	<code>\mscrL</code>	lagrangian (script capital l)



USV	M	X	S	C	A	P	D	E	Macro	Description
U+02113	<i>ℓ</i>	<i>ℓ</i>	<i>ℓ</i>	<i>ℓ</i>	<i>ℓ</i>	<i>ℓ</i>	<i>ℓ</i>	<i>ℓ</i>	<code>\ell<sup>(p)</sup></code>	cursive small l
U+02115	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>		<code>\BbbN</code>	/bbb n, open face n
U+02118	<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>	<code>\wp<sup>(p)</sup></code>	weierstrass p
U+02119	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>		<code>\BbbP</code>	/bbb p, open face p
U+0211A	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>		<code>\BbbQ</code>	/bbb q, open face q
U+0211B	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<code>\mscrR</code>	/scr r, script letter r
U+0211C	<i>ℜ</i>	<i>ℜ</i>	<i>ℜ</i>	<i>ℜ</i>	<i>ℜ</i>	<i>ℜ</i>	<i>ℜ</i>	<i>ℜ</i>	<code>\Re<sup>(p)</sup></code>	real part
U+0211D	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>		<code>\BbbR</code>	/bbb r, open face r
U+02124	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>		<code>\BbbZ</code>	/bbb z, open face z
U+02128	<i>Ƶ</i>	<i>Ƶ</i>	<i>Ƶ</i>	<i>Ƶ</i>	<i>Ƶ</i>	<i>Ƶ</i>	<i>Ƶ</i>	<i>Ƶ</i>	<code>\mfracZ</code>	/frak z, upper case z
U+02129		<i>ı</i>	<i>ı</i>	<i>ı</i>	<i>ı</i>				<code>\turnediota</code>	turned iota
U+0212B	<i>Å</i>	<i>Å</i>	<i>Å</i>	<i>Å</i>	<i>Å</i>	<i>Å</i>	<i>Å</i>		<code>\Angstrom</code>	angstrom capital a, ring
U+0212C	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<code>\mscrB</code>	bernoulli function (script capital b)
U+0212D	<i>Ɔ</i>	<i>Ɔ</i>	<i>Ɔ</i>	<i>Ɔ</i>	<i>Ɔ</i>	<i>Ɔ</i>	<i>Ɔ</i>	<i>Ɔ</i>	<code>\mfracC</code>	black-letter capital c
U+0212F		<i>e</i>	<i>e</i>	<i>e</i>	<i>e</i>	<i>e</i>	<i>e</i>		<code>\mscre</code>	/scr e, script letter e
U+02130	<i>ℰ</i>	<i>ℰ</i>	<i>ℰ</i>	<i>ℰ</i>	<i>ℰ</i>	<i>ℰ</i>	<i>ℰ</i>	<i>ℰ</i>	<code>\mscrE</code>	/scr e, script letter e
U+02131	<i>ℱ</i>	<i>ℱ</i>	<i>ℱ</i>	<i>ℱ</i>	<i>ℱ</i>	<i>ℱ</i>	<i>ℱ</i>	<i>ℱ</i>	<code>\mscrF</code>	/scr f, script letter f
U+02133	<i>ℳ</i>	<i>ℳ</i>	<i>ℳ</i>	<i>ℳ</i>	<i>ℳ</i>	<i>ℳ</i>	<i>ℳ</i>	<i>ℳ</i>	<code>\mscrM</code>	physics m-matrix (script capital m)
U+02134		<i>o</i>	<i>o</i>	<i>o</i>	<i>o</i>	<i>o</i>	<i>o</i>		<code>\mscro</code>	order of (script small o)
U+02135	<i>ℵ</i>	<i>ℵ</i>	<i>ℵ</i>	<i>ℵ</i>	<i>ℵ</i>	<i>ℵ</i>	<i>ℵ</i>	<i>ℵ</i>	<code>\aleph<sup>(p)</sup></code>	aleph, hebrew
U+02136	<i>ℶ</i>	<i>ℶ</i>	<i>ℶ</i>	<i>ℶ</i>	<i>ℶ</i>	<i>ℶ</i>	<i>ℶ</i>		<code>\beth<sup>(a)</sup></code>	beth, hebrew
U+02137	<i>ℷ</i>	<i>ℷ</i>	<i>ℷ</i>	<i>ℷ</i>	<i>ℷ</i>	<i>ℷ</i>	<i>ℷ</i>		<code>\gimel<sup>(a)</sup></code>	gimel, hebrew
U+02138	<i>ℸ</i>	<i>ℸ</i>	<i>ℸ</i>	<i>ℸ</i>	<i>ℸ</i>	<i>ℸ</i>	<i>ℸ</i>		<code>\daleth<sup>(a)</sup></code>	daleth, hebrew
U+0213D	<i>Ɽ</i>	<i>Ɽ</i>	<i>Ɽ</i>	<i>Ɽ</i>	<i>Ɽ</i>	<i>Ɽ</i>	<i>Ɽ</i>		<code>\Bbbgamma</code>	double-struck small gamma

USV	M	X	S	C	A	P	D	E	Macro	Description
U+0213E	𐌸	𐌹	𐌺	𐌻	𐌾	𐌿	𐍂		<code>\BbbGamma</code>	double-struck capital gamma
U+0213F	𐌰	𐌱	𐌴	𐌵	𐌸	𐌹	𐍂		<code>\BbbPi</code>	double-struck capital pi
U+02202	∂	∂	∂	∂	∂	∂	∂	∂	<code>\partial</code> <sup>(p)</sup>	partial differential
U+02207	∇	∇	∇	∇	∇	∇	∇	∇	<code>\nabla</code> <sup>(p)</sup>	nabla, del, hamilton operator
U+1D6A4	<i>ℓ</i>	<i>ℓ</i>	<i>ℓ</i>	<i>ℓ</i>	<i>ℓ</i>	<i>ℓ</i>	<i>ℓ</i>		<code>\imath</code> <sup>(p)</sup>	mathematical italic small dotless i
U+1D6A5	<i>ℓ</i>	<i>ℓ</i>	<i>ℓ</i>	<i>ℓ</i>	<i>ℓ</i>	<i>ℓ</i>	<i>ℓ</i>		<code>\jmath</code> <sup>(p)</sup>	mathematical italic small dotless j
U+1D6C1	∇	∇	∇	∇	∇	∇	∇	∇	<code>\mbfnabla</code>	mathematical bold nabla
U+1D6FB	∇	∇	∇	∇	∇	∇	∇		<code>\mitnabla</code>	mathematical italic nabla
U+1D735	∇	∇	∇	∇	∇	∇	∇		<code>\mbfitnabla</code>	mathematical bold italic nabla
U+1D76F	∇	∇	∇		∇	∇	∇		<code>\mbfsansnabla</code>	mathematical sans-serif bold nabla
U+1D7A9	∇	∇	∇		∇	∇	∇		<code>\mbfitsansnabla</code>	mathematical sans-serif bold italic nabla
U+1D7CA		Ɔ			Ɔ				<code>\mbfDigamma</code>	mathematical bold capital digamma
U+1D7CB		Ɔ			Ɔ				<code>\mbfdigamma</code>	mathematical bold small digamma