

# Symbols defined by unicode-math

Will Robertson

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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)

- L *Latin Modern Math* (1585)
- X *XITS Math* (2427)
- S *STIX Math Two* (2422)
- P *TeX Gyre Pagella Math* (1638)
- D *DejaVu Math TeX Gyre* (1640)
- F *Fira Math* (934)

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

Note that this list of fonts is not intended to be exhaustive but I am happy to add new fonts by request if they are distributed in  $\TeX$  Live.<sup>1</sup>

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<sup>1</sup>Only a single  $\TeX$  Gyre Math font is shown here by design as they all largely have the same symbol coverage.

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# 1 Opening symbols, `\mathopen`

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

usv	L	X	S	P	D	F	Macro	Description
U+0298B		⌊	⌋				<code>\lbrackubar</code>	left square bracket with underbar
U+0298D		⌊	⌋				<code>\lbrackultick</code>	left square bracket with tick in top corner
U+0298F		⌊	⌋				<code>\lbracklltick</code>	left square bracket with tick in bottom corner
U+02991		⌠	⌡				<code>\langedot</code>	left angle bracket with dot
U+02993		⌢	⌣				<code>\lparenless</code>	left arc less-than bracket
U+02995		⌤	⌥				<code>\Lparenltr</code>	double left arc greater-than bracket
U+02997		⌦	⌧				<code>\lblrbrak</code>	left black tortoise shell bracket
U+029D8		⌘	⌙				<code>\lvzigzag</code>	left wiggly fence
U+029DA		⌚	⌛				<code>\Lvzigzag</code>	left double wiggly fence
U+029FC		⌜	⌝				<code>\lcurvyangle</code>	left pointing curved angle bracket

## 2 Closing symbols, `\mathclose`

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

usv	L	X	S	P	D	F	Macro	Description
U+02992		›	›				<code>\rangledot</code>	right angle bracket with dot
U+02994		›	›				<code>\rparengtr</code>	right arc greater-than bracket
U+02996		›	›				<code>\Rparenless</code>	double right arc less-than bracket
U+02998		)	)				<code>\rblkbrbrak</code>	right black tortoise shell bracket
U+029D9		›	›				<code>\rvzigzag</code>	right wiggly fence
U+029DB		›	›				<code>\Rvzigzag</code>	right double wiggly fence
U+029FD		›	›				<code>\rcurvyangle</code>	right pointing curved angle bracket

### 3 Fence symbols, `\mathfence`

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

### 6 ‘Under’ symbols, `\mathunder`

USV	L	X	S	P	D	F	Macro	Description
U+023B5	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	<code>\underbracket</code>	bottom square bracket
U+023DD	$\underparen{x+y}$	$\underparen{x+y}$	$\underparen{x+y}$	$\underparen{x+y}$	$\underparen{x+y}$	$\underparen{x+y}$	<code>\underparen</code>	bottom parenthesis (mathematical use)

USV	L	X	S	P	D	F	Macro	Description
U+023DF	$\underbrace{x+y}$	$\underbrace{x+y}$	$\underbrace{x+y}$	$\underbrace{x+y}$	$\underbrace{x+y}$	$\underbrace{x+y}$	<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	L	X	S	P	D	F	Macro	Description
U+00300	$\grave{x}$	$\grave{x}$	$\grave{x}$	$\grave{x}$	$\grave{x}$	$\grave{x}$	<code>\grave{p}</code>	grave accent
U+00301	$\acute{x}$	$\acute{x}$	$\acute{x}$	$\acute{x}$	$\acute{x}$	$\acute{x}$	<code>\acute{p}</code>	acute accent
U+00302	$\hat{x}$	$\hat{x}$	$\hat{x}$	$\hat{x}$	$\hat{x}$	$\hat{x}$	<code>\hat{p}</code>	circumflex accent
U+00303	$\tilde{x}$	$\tilde{x}$	$\tilde{x}$	$\tilde{x}$	$\tilde{x}$	$\tilde{x}$	<code>\tilde{p}</code>	tilde
U+00304	$\bar{x}$	$\bar{x}$	$\bar{x}$	$\bar{x}$	$\bar{x}$	$\bar{x}$	<code>\bar{p}</code>	macron
U+00305	$\overline{x}$	$\overline{x}$	$\overline{x}$	$\overline{x}$	$\overline{x}$	$\overline{x}$	<code>\overbar</code>	overbar embellishment
U+00306	$\breve{x}$	$\breve{x}$	$\breve{x}$	$\breve{x}$	$\breve{x}$	$\breve{x}$	<code>\breve{p}</code>	breve
U+00307	$\dot{x}$	$\dot{x}$	$\dot{x}$	$\dot{x}$	$\dot{x}$	$\dot{x}$	<code>\dot{p}</code>	dot above
U+00308	$\ddot{x}$	$\ddot{x}$	$\ddot{x}$	$\ddot{x}$	$\ddot{x}$	$\ddot{x}$	<code>\ddot{p}</code>	dieresis
U+00309	$\mathring{x}$	$\mathring{x}$	$\mathring{x}$	$\mathring{x}$	$\mathring{x}$	$\mathring{x}$	<code>\mathring{p}</code>	combining hook above
U+0030A	$\mathring{x}$	$\mathring{x}$	$\mathring{x}$	$\mathring{x}$	$\mathring{x}$	$\mathring{x}$	<code>\ocirc</code>	ring
U+0030C	$\check{x}$	$\check{x}$	$\check{x}$	$\check{x}$	$\check{x}$	$\check{x}$	<code>\check{p}</code>	caron
U+00310		$\mathring{x}$	$\mathring{x}$				<code>\candra</code>	candrabindu (non-spacing)
U+00312		$\mathring{x}$	$\mathring{x}$			$\mathring{x}$	<code>\oturnedcomma</code>	combining turned comma above
U+00315		$\mathring{x}$	$\mathring{x}$				<code>\ocommatoprigh</code>	combining comma above right
U+0031A		$\overleftarrow{x}$	$\overleftarrow{x}$			$\overleftarrow{x}$	<code>\droang</code>	left angle above (non-spacing)
U+020D0	$\overleftarrow{x}$	$\overleftarrow{x}$	$\overleftarrow{x}$	$\overleftarrow{x}$	$\overleftarrow{x}$	$\overleftarrow{x}$	<code>\leftharpoonaccent</code>	combining left harpoon above
U+020D1	$\overrightarrow{x}$	$\overrightarrow{x}$	$\overrightarrow{x}$	$\overrightarrow{x}$	$\overrightarrow{x}$	$\overrightarrow{x}$	<code>\rightharpoonaccent</code>	combining right harpoon above
U+020D2	$\overline{x}$	$\overline{x}$	$\overline{x}$	$\overline{x}$	$\overline{x}$	$\overline{x}$	<code>\verticaloverlay</code>	combining long vertical line overlay
U+020D7	$\overrightarrow{x}$	$\overrightarrow{x}$	$\overrightarrow{x}$	$\overrightarrow{x}$	$\overrightarrow{x}$	$\overrightarrow{x}$	<code>\vec{p}</code>	combining right arrow above
U+020DB	$\ddot{x}$	$\ddot{x}$	$\ddot{x}$	$\ddot{x}$	$\ddot{x}$	$\ddot{x}$	<code>\dddotted</code>	combining three dots above
U+020DC	$\ddot{x}$	$\ddot{x}$	$\ddot{x}$	$\ddot{x}$	$\ddot{x}$	$\ddot{x}$	<code>\dddotted</code>	combining four dots above

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


































































## 8 Bottom accents, `\mathbotaccent`











































USV	L	X	S	P	D	F	Macro	Description
U+020E8	$\underset{\cdot}{x}$	$\underset{\cdot}{y}$	$\underset{\cdot}{z}$	$\underset{\cdot}{x}$	$\underset{\cdot}{y}$	$\underset{\cdot}{z}$	<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	L	X	S	P	D	F	Macro	Description
U+02140	$\overset{1}{\underset{0}{\Sigma}}$	$\overset{1}{\underset{0}{\Sigma}}$	$\overset{1}{\underset{0}{\Sigma}}$	$\overset{1}{\underset{0}{\Sigma}}$	$\overset{1}{\underset{0}{\Sigma}}$		<code>\Bbbsum</code>	double-struck n-ary summation
U+0220F	$\overset{1}{\underset{0}{\prod}}$	$\overset{1}{\underset{0}{\prod}}$	$\overset{1}{\underset{0}{\prod}}$	$\overset{1}{\underset{0}{\prod}}$	$\overset{1}{\underset{0}{\prod}}$	$\overset{1}{\underset{0}{\prod}}$	<code>\prod<sup>(p)</sup></code>	product operator
U+02210	$\overset{1}{\underset{0}{\coprod}}$	$\overset{1}{\underset{0}{\coprod}}$	$\overset{1}{\underset{0}{\coprod}}$	$\overset{1}{\underset{0}{\coprod}}$	$\overset{1}{\underset{0}{\coprod}}$	$\overset{1}{\underset{0}{\coprod}}$	<code>\coprod<sup>(p)</sup></code>	coproduct operator
U+02211	$\overset{1}{\underset{0}{\sum}}$	$\overset{1}{\underset{0}{\sum}}$	$\overset{1}{\underset{0}{\sum}}$	$\overset{1}{\underset{0}{\sum}}$	$\overset{1}{\underset{0}{\sum}}$	$\overset{1}{\underset{0}{\sum}}$	<code>\sum<sup>(p)</sup></code>	summation operator
U+0222B	$\overset{1}{\int_0}$	$\overset{1}{\int_0}$	$\overset{1}{\int_0}$	$\overset{1}{\int_0}$	$\overset{1}{\int_0}$	$\overset{1}{\int_0}$	<code>\int<sup>(p)</sup></code>	integral operator
U+0222C	$\overset{1}{\iint_0}$	$\overset{1}{\iint_0}$	$\overset{1}{\iint_0}$	$\overset{1}{\iint_0}$	$\overset{1}{\iint_0}$	$\overset{1}{\iint_0}$	<code>\iint</code>	double integral operator
U+0222D	$\overset{1}{\iiint_0}$	$\overset{1}{\iiint_0}$	$\overset{1}{\iiint_0}$	$\overset{1}{\iiint_0}$	$\overset{1}{\iiint_0}$	$\overset{1}{\iiint_0}$	<code>\iiint</code>	triple integral operator
U+0222E	$\overset{1}{\oint_0}$	$\overset{1}{\oint_0}$	$\overset{1}{\oint_0}$	$\overset{1}{\oint_0}$	$\overset{1}{\oint_0}$	$\overset{1}{\oint_0}$	<code>\oint<sup>(p)</sup></code>	contour integral operator
U+0222F	$\overset{1}{\oiint_0}$	$\overset{1}{\oiint_0}$	$\overset{1}{\oiint_0}$	$\overset{1}{\oiint_0}$	$\overset{1}{\oiint_0}$	$\overset{1}{\oiint_0}$	<code>\oiint</code>	double contour integral operator
U+02230	$\overset{1}{\oiiint_0}$	$\overset{1}{\oiiint_0}$	$\overset{1}{\oiiint_0}$	$\overset{1}{\oiiint_0}$	$\overset{1}{\oiiint_0}$	$\overset{1}{\oiiint_0}$	<code>\oiiint</code>	triple contour integral operator
U+02231	$\overset{1}{\int_0}$	$\overset{1}{\int_0}$	$\overset{1}{\int_0}$	$\overset{1}{\int_0}$	$\overset{1}{\int_0}$	$\overset{1}{\int_0}$	<code>\intclockwise</code>	clockwise integral
U+02232	$\overset{1}{\oint_0}$	$\overset{1}{\oint_0}$	$\overset{1}{\oint_0}$	$\overset{1}{\oint_0}$	$\overset{1}{\oint_0}$	$\overset{1}{\oint_0}$	<code>\varointclockwise</code>	contour integral, clockwise
U+02233	$\overset{1}{\oint_0}$	$\overset{1}{\oint_0}$	$\overset{1}{\oint_0}$	$\overset{1}{\oint_0}$	$\overset{1}{\oint_0}$	$\overset{1}{\oint_0}$	<code>\ointctrlockwise</code>	contour integral, anticlockwise
U+022C0	$\overset{1}{\underset{0}{\bigwedge}}$	$\overset{1}{\underset{0}{\bigwedge}}$	$\overset{1}{\underset{0}{\bigwedge}}$	$\overset{1}{\underset{0}{\bigwedge}}$	$\overset{1}{\underset{0}{\bigwedge}}$		<code>\bigwedge<sup>(p)</sup></code>	logical and operator
U+022C1	$\overset{1}{\underset{0}{\bigvee}}$	$\overset{1}{\underset{0}{\bigvee}}$	$\overset{1}{\underset{0}{\bigvee}}$	$\overset{1}{\underset{0}{\bigvee}}$	$\overset{1}{\underset{0}{\bigvee}}$		<code>\bigvee<sup>(p)</sup></code>	logical or operator

USV	L	X	S	P	D	F	Macro	Description
U+022C2							<code>\bigcap<sup>(p)</sup></code>	intersection operator
U+022C3							<code>\bigcup<sup>(p)</sup></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>\xsol</code>	big solidus
U+029F9							<code>\xbsol</code>	big reverse solidus
U+02A00							<code>\bigodot<sup>(p)</sup></code>	n-ary circled dot operator
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

USV	L	X	S	P	D	F	Macro	Description
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
U+02A0C							<code>\iiiint</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>\rppolint</code>	line integration with rectangular path around pole
U+02A13							<code>\scpolint</code>	line integration with semi-circular path around pole
U+02A14							<code>\npolint</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	L	X	S	P	D	F	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
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	L	X	S	P	D	F	Macro	Description
U+0002B	+	+	+	+	+	+	<code>\mathplus</code>	plus sign b:
U+000B1	±	±	±	±	±	±	<code>\pm<sup>(p)</sup></code>	plus-or-minus sign
U+000B7	·	·	·	·	·	·	<code>\cdot<sup>(p)</sup></code>	<code>/centerdot</code> b: middle dot
U+000D7	×	×	×	×	×	×	<code>\times<sup>(p)</sup></code>	multiply sign
U+000F7	÷	÷	÷	÷	÷	÷	<code>\div<sup>(p)</sup></code>	divide sign
U+02020	†	†	†	†	†	†	<code>\dagger<sup>(p)</sup></code>	dagger relation
U+02021	‡	‡	‡	‡	‡	‡	<code>\ddagger<sup>(p)</sup></code>	double dagger relation
U+02022	●	●	●	●	●	●	<code>\smbllkcircle</code>	<code>/bullet</code> 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<sup>(p)</sup></code>	minus-or-plus sign
U+02214	⋇	⋇	⋇	⋇	⋇	⋇	<code>\dotplus<sup>(a)</sup></code>	plus sign, dot above
U+02215	/	/	/	/	/	/	<code>\divslash</code>	division slash
U+02216	\	\	\	\	\	\	<code>\smallsetminus<sup>(a)</sup></code>	small set minus (cf. reverse solidus)
U+02217	*	*	*	*	*	*	<code>\ast<sup>(p)</sup></code>	centered asterisk
U+02218	◦	◦	◦	◦	◦	◦	<code>\vysmwhtcircle</code>	composite function (small circle)
U+02219	●	●	●	●	●	●	<code>\vysmbllkcircle</code>	bullet operator
U+02227	∧	∧	∧	∧	∧	∧	<code>\wedge<sup>(p)</sup></code>	<code>/wedge</code> <code>/land</code> b: logical and
U+02228	∨	∨	∨	∨	∨	∨	<code>\vee<sup>(p)</sup></code>	<code>/vee</code> <code>/lor</code> b: logical or
U+02229	∩	∩	∩	∩	∩	∩	<code>\cap<sup>(p)</sup></code>	intersection
U+0222A	∪	∪	∪	∪	∪	∪	<code>\cup<sup>(p)</sup></code>	union or logical sum

usv	L	X	S	P	D	F	Macro	Description
U+02238							<code>\dotminus</code>	minus sign, dot above
U+0223E							<code>\invlazys</code>	most positive [inverted lazy s]
U+02240							<code>\wr<sup>(p)</sup></code>	wreath product
U+0228C							<code>\cupleftarrow</code>	multiset
U+0228D							<code>\cupdot</code>	union, with dot
U+0228E							<code>\uplus<sup>(p)</sup></code>	plus sign in union
U+02293							<code>\sqcap<sup>(p)</sup></code>	square intersection
U+02294							<code>\sqcup<sup>(p)</sup></code>	square union
U+02295							<code>\oplus<sup>(p)</sup></code>	plus sign in circle
U+02296							<code>\ominus<sup>(p)</sup></code>	minus sign in circle
U+02297							<code>\otimes<sup>(p)</sup></code>	multiply sign in circle
U+02298							<code>\oslash<sup>(p)</sup></code>	solidus in circle
U+02299							<code>\odot<sup>(p)</sup></code>	middle dot in circle
U+0229A							<code>\circledcirc<sup>(a)</sup></code>	small circle in circle
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)



USV	L	X	S	P	D	F	Macro	Description
U+022BD							<code>\barvee</code>	bar, vee (large vee)
U+022C4							<code>\smwhtdiamond</code>	white diamond
U+022C5							<code>\cdot</code> <sup>(p)</sup>	small middle dot
U+022C6							<code>\star</code> <sup>(p)</sup>	small star, filled, low
U+022C7							<code>\divideontimes</code> <sup>(a)</sup>	division on times
U+022C9							<code>\ltimes</code> <sup>(a)</sup>	times sign, left closed
U+022CA							<code>\rtimes</code> <sup>(a)</sup>	times sign, right closed
U+022CB							<code>\leftthreetimes</code> <sup>(a)</sup>	left semidirect product
U+022CC							<code>\rightthreetimes</code> <sup>(a)</sup>	right semidirect product
U+022CE							<code>\curlyvee</code> <sup>(a)</sup>	curly logical or
U+022CF							<code>\curlywedge</code> <sup>(a)</sup>	curly logical and
U+022D2							<code>\Cap</code> <sup>(a)</sup>	<code>/cap</code> /doublecap b: double intersection
U+022D3							<code>\Cup</code> <sup>(a)</sup>	<code>/cup</code> /doublecup b: double union
U+02305							<code>\varbarwedge</code>	<code>/barwedge</code> b: logical and, bar above [projective (bar over small wedge)]
U+02306							<code>\vardoublebarwedge</code>	<code>/doublebarwedge</code> 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</code> <sup>(p)</sup>	big up triangle, open
U+025B7							<code>\triangleright</code> <sup>(p)</sup>	(large) right triangle, open; z notation range restriction
U+025C1							<code>\triangleleft</code> <sup>(p)</sup>	(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

USV	L	X	S	P	D	F	Macro	Description
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
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>\mdlgbkllozenge</code>	black lozenge
U+029F5							<code>\setminus<sup>(p)</sup></code>	reverse solidus operator

USV	L	X	S	P	D	F	Macro	Description
U+029F6		$\overline{7}$	$\overline{7}$				<code>\dsol</code>	solidus with overbar
U+029F7		$\backslash$	$\backslash$				<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		$\overset{\circ}{+}$	$\overset{\circ}{+}$				<code>\ringplus</code>	plus sign with small circle above
U+02A23		$\overset{\frown}{+}$	$\overset{\frown}{+}$				<code>\plushat</code>	plus sign with circumflex accent above
U+02A24		$\overset{\sim}{+}$	$\overset{\sim}{+}$				<code>\simplus</code>	plus sign with tilde above
U+02A25		$\underset{\cdot}{+}$	$\underset{\cdot}{+}$				<code>\plusdot</code>	plus sign with dot below
U+02A26		$\underset{\sim}{+}$	$\underset{\sim}{+}$				<code>\plussim</code>	plus sign with tilde below
U+02A27		$\underset{2}{+}$	$\underset{2}{+}$				<code>\plussubtwo</code>	plus sign with subscript two
U+02A28		$\blacktriangleplus$	$\blacktriangleplus$				<code>\plustrif</code>	plus sign with black triangle
U+02A29		$\overset{,}{-}$	$\overset{,}{-}$				<code>\commaminus</code>	minus sign with comma above
U+02A2A		$\underset{\cdot}{-}$	$\underset{\cdot}{-}$				<code>\minusdot</code>	minus sign with dot below
U+02A2B		$\underset{\cdot\cdot}{-}$	$\underset{\cdot\cdot}{-}$				<code>\minusfdots</code>	minus sign with falling dots
U+02A2C		$\underset{\cdot\cdot}{-}$	$\underset{\cdot\cdot}{-}$				<code>\minusrdots</code>	minus sign with rising dots
U+02A2D		$\oplus$	$\oplus$				<code>\opluslhrim</code>	plus sign in left half circle
U+02A2E		$\otimes$	$\otimes$				<code>\oplusrhrim</code>	plus sign in right half circle
U+02A2F	$\times$	$\times$	$\times$	$\times$	$\times$		<code>\vectimes</code>	vector or cross product
U+02A30		$\overset{\cdot}{\times}$	$\overset{\cdot}{\times}$				<code>\dottimes</code>	multiplication sign with dot above
U+02A31		$\underline{\times}$	$\underline{\times}$				<code>\timesbar</code>	multiplication sign with underbar
U+02A32		$\bowtie$	$\bowtie$				<code>\btimes</code>	semidirect product with bottom closed
U+02A33		$\ast$	$\ast$				<code>\smashtimes</code>	smash product

USV	L	X	S	P	D	F	Macro	Description
U+02A34		⊗	⊗				<code>\otimeslhrim</code>	multiplication sign in left half circle
U+02A35		⊗	⊗				<code>\otimesrhrim</code>	multiplication sign in right half circle
U+02A36		⊗	⊗				<code>\otimesshat</code>	circled multiplication sign with circumflex accent
U+02A37		⊗	⊗				<code>\Otimes</code>	multiplication sign in double circle
U+02A38		⊕	⊕				<code>\odiv</code>	circled division sign
U+02A39		⊕	⊕				<code>\triangleplus</code>	plus sign in triangle
U+02A3A		⊖	⊖				<code>\triangleminus</code>	minus sign in triangle
U+02A3B		⊗	⊗				<code>\triangletimes</code>	multiplication sign in triangle
U+02A3C		⊣	⊣				<code>\intprod</code>	interior product
U+02A3D		⊣	⊣				<code>\intprodr</code>	righthand interior product
U+02A3E		⋈	⋈				<code>\fcmp</code>	z notation relational composition
U+02A3F	⋈	⋈	⋈	⋈	⋈		<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

USV	L	X	S	P	D	F	Macro	Description
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
U+02A57		∨	∨				<code>\bigslopedvee</code>	sloping large or
U+02A58		∧	∧				<code>\bigslopedwedge</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<sup>(a)</sup></code>	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>\dsub</code>	z notation domain antirestriction

USV	L	X	S	P	D	F	Macro	Description
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	L	X	S	P	D	F	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 /lnot not sign
U+000B6	¶	¶	¶	¶	¶	¶	<code>\mathparagraph</code>	paragraph symbol
U+001B5		Z	Z			Z	<code>\Zbar</code>	impedance (latin capital letter z with stroke)
U+003F6		ϵ	ϵ			ϵ	<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)
U+02032	′	′	′	′	′	′	<code>\prime</code> <sup>(P)</sup>	prime or minute, not superscripted
U+02033	″	″	″	″	″	″	<code>\dprime</code>	double prime or second, not superscripted

USV	L	X	S	P	D	F	Macro	Description
U+02034	'''	'''	'''	'''	'''	'''	<code>\trprime</code>	triple prime (not superscripted)
U+02035	\	\	\	\	\		<code>\backprime<sup>(a)</sup></code>	reverse prime, not superscripted
U+02036	''	''	''	''	''		<code>\backdprime</code>	double reverse prime, not superscripted
U+02037	'''	'''	'''	'''	'''		<code>\backtrprime</code>	triple reverse prime, not superscripted
U+02038		^	^				<code>\caretinsert</code>	caret (insertion mark)
U+0203C		!!	!!				<code>\Exclam</code>	double exclamation mark
U+02043		▪	▪				<code>\hyphenbullet</code>	rectangle, filled (hyphen bullet)
U+02047		??	??				<code>\Question</code>	double question mark
U+02057	''''	''''	''''	''''	''''		<code>\qprime</code>	quadruple prime, not superscripted
U+020AC	€	€	€	€	€	€	<code>\euro</code>	euro sign
U+020DD	○	○	○	○	○		<code>\enclosecircle</code>	combining enclosing circle
U+020DE	□	□	□	□	□		<code>\enclosesquare</code>	combining enclosing square
U+020DF	◇	◇	◇	◇	◇		<code>\enclosediamond</code>	combining enclosing diamond
U+020E4	△	△	△	△	△		<code>\enclosetriangle</code>	combining enclosing upward pointing triangle
U+02107	ε	ε	ε	ε	ε		<code>\Eulerconst</code>	euler constant
U+0210E	h	h	h	h	h	h	<code>\Planckconst</code>	planck constant
U+02127	℧	℧	℧	℧	℧	℧	<code>\mho</code>	conductance
U+02132		ƒ	ƒ				<code>\Finv<sup>(a)</sup></code>	turned capital f
U+0213C	π	π	π	π	π		<code>\Bbbpi</code>	double-struck small pi
U+02141		Ɔ	Ɔ				<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






























































































USV	L	X	S	P	D	F	Macro	Description
U+02145	<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>		<code>\mitBbbD</code>	double-struck italic capital d
U+02146	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>		<code>\mitBbbd</code>	double-struck italic small d
U+02147	<i>e</i>	<i>e</i>	<i>e</i>	<i>e</i>	<i>e</i>		<code>\mitBbbe</code>	double-struck italic small e
U+02148	<i>i</i>	<i>i</i>	<i>i</i>	<i>i</i>	<i>i</i>		<code>\mitBbbi</code>	double-struck italic small i
U+02149	<i>j</i>	<i>j</i>	<i>j</i>	<i>j</i>	<i>j</i>		<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
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

USV	L	X	S	P	D	F	Macro	Description
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	Δ	Δ	Δ	Δ	Δ	Δ	<code>\increment</code>	laplacian (delta; nabla^2)
U+0220E	■	■	■	■	■	■	<code>\QED</code>	end of proof
U+0221A	√	√	√	√	√	√	<code>\surd</code> <sup>(p)</sup>	radical
U+0221E	∞	∞	∞	∞	∞	∞	<code>\infty</code> <sup>(p)</sup>	infinity
U+0221F	∟	∟	∟	∟	∟	∟	<code>\rightangle</code>	right (90 degree) angle
U+02220	∠	∠	∠	∠	∠	∠	<code>\angle</code> <sup>(p)</sup>	angle
U+02221	∠	∠	∠	∠	∠	∠	<code>\measuredangle</code> <sup>(a)</sup>	angle-measured
U+02222	∠	∠	∠	∠	∠	∠	<code>\sphericalangle</code> <sup>(a)</sup>	angle-spherical
U+02234	∴	∴	∴	∴	∴	∴	<code>\therefore</code> <sup>(a)</sup>	therefore
U+02235	∵	∵	∵	∵	∵	∵	<code>\because</code> <sup>(a)</sup>	because
U+0223F	∿	∿	∿	∿	∿		<code>\sinewave</code>	sine wave
U+022A4	⤴	⤴	⤴	⤴	⤴		<code>\top</code> <sup>(p)</sup>	top
U+022A5	⤵	⤵	⤵	⤵	⤵		<code>\bot</code> <sup>(p)</sup>	bottom
U+022B9	⊕	⊕	⊕	⊕	⊕		<code>\hermitmatrix</code>	hermitian conjugate matrix
U+022BE	⊓	⊓	⊓	⊓	⊓		<code>\measuredrightangle</code>	right angle-measured [with arc]
U+022BF	⊔	⊔	⊔	⊔	⊔		<code>\varlrrtriangle</code>	right triangle
U+022EF	⋯	⋯	⋯	⋯	⋯	⋯	<code>\unicodcdots</code>	three dots, centered
U+02300	⊘	⊘	⊘	⊘	⊘		<code>\diameter</code>	diameter sign












































































USV	L	X	S	P	D	F	Macro	Description
U+02302							<code>\house</code>	house
U+02310							<code>\invnot</code>	reverse not
U+02311							<code>\sqlozenge</code>	square lozenge
U+02312							<code>\profline</code>	profile of a line
U+02313							<code>\profsurf</code>	profile of a surface
U+02317							<code>\viewdata</code>	viewdata square
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

USV	L	X	S	P	D	F	Macro	Description
U+0239E	)	)	)	)	)	)	<code>\rparenuend</code>	right parenthesis upper hook
U+0239F							<code>\rparenextender</code>	right parenthesis extension
U+023A0	)	)	)	)	)	)	<code>\rparenlend</code>	right parenthesis lower hook
U+023A1	[	[	[	[	[	[	<code>\lbrackeuend</code>	left square bracket upper corner
U+023A2							<code>\lbrackextender</code>	left square bracket extension
U+023A3	[	[	[	[	[	[	<code>\lbracklend</code>	left square bracket lower corner
U+023A4	]	]	]	]	]	]	<code>\rbrackeuend</code>	right square bracket upper corner
U+023A5							<code>\rbrackextender</code>	right square bracket extension
U+023A6	]	]	]	]	]	]	<code>\rbracklend</code>	right square bracket lower corner
U+023A7	{	{	{	{	{	{	<code>\lbraceuend</code>	left curly bracket upper hook
U+023A8	}	}	}	}	}	}	<code>\lbracemid</code>	left curly bracket middle piece
U+023A9	{	{	{	{	{	{	<code>\lbracelend</code>	left curly bracket lower hook
U+023AA							<code>\vbraceextender</code>	curly bracket extension
U+023AB	}	}	}	}	}	}	<code>\rbraceuend</code>	right curly bracket upper hook
U+023AC	}	}	}	}	}	}	<code>\rbracemid</code>	right curly bracket middle piece
U+023AD	}	}	}	}	}	}	<code>\rbracelend</code>	right curly bracket lower hook
U+023AE							<code>\intextender</code>	integral extension

USV	L	X	S	P	D	F	Macro	Description
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>\accurent</code>	ac current
U+023E7							<code>\elinters</code>	electrical intersection
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

USV	L	X	S	P	D	F	Macro	Description
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, horizontal 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
U+025A8							<code>\squareneswfill</code>	square, ne-to-sw rule filled
U+025A9							<code>\squarecrossfill</code>	square with diagonal crosshatch fill
U+025AA							<code>\smlblksquare</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
































































USV	L	X	S	P	D	F	Macro	Description
U+025B2							<code>\bigblacktriangleup</code>	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
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

USV	L	X	S	P	D	F	Macro	Description
U+025CF							<code>\mdlgblkcircle</code>	circle, filled
U+025D0							<code>\circlelefthalfblack</code>	circle, filled left half [harvey ball]
U+025D1							<code>\circlesrighthalfblack</code>	circle, filled right half
U+025D2							<code>\circlebottomhalfblack</code>	circle, filled bottom half
U+025D3							<code>\circletophalfblack</code>	circle, filled top half
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
U+025E6							<code>\smwhtcircle</code>	white bullet



USV	L	X	S	P	D	F	Macro	Description
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
U+025F7							<code>\circleurquad</code>	white circle with upper right quadrant
U+025F8							<code>\ultriangle</code>	upper left triangle
U+025F9							<code>\urtriangle</code>	upper right triangle
U+025FA							<code>\lltriangle</code>	lower left triangle
U+025FB							<code>\mdwhtsquare</code>	white medium square
U+025FC							<code>\mdblksquare</code>	black medium square

USV	L	X	S	P	D	F	Macro	Description
U+025FD		□	◻				<code>\mdsmwhtsquare</code>	white medium small square
U+025FE		■	◼				<code>\mdsmblksquare</code>	black medium small square
U+025FF		◓	◔				<code>\lrtriangle</code>	lower right triangle
U+02605		★	☆				<code>\bigstar<sup>(a)</sup></code>	star, filled
U+02606		☆	☆☆				<code>\bigwhitestar</code>	star, open
U+02609		☉	☼				<code>\astrosun</code>	sun
U+02621		⚠	⚡				<code>\danger</code>	dangerous bend (caution sign)
U+0263B		☺	☻			☹	<code>\blacksmiley</code>	black smiling face
U+0263C		☼	☼			☼	<code>\sun</code>	white sun with rays
U+0263D		☾	☾				<code>\rightmoon</code>	first quarter moon
U+0263E		☾	☾				<code>\leftmoon</code>	last quarter moon
U+02640		♀	♀			♀	<code>\female</code>	venus, female
U+02642		♂	♂			♂	<code>\male</code>	mars, male
U+02660	♠	♠	♠	♠	♠	♠	<code>\spadesuit<sup>(p)</sup></code>	spades suit symbol
U+02661	♥	♥	♥	♥	♥		<code>\heartsuit<sup>(p)</sup></code>	heart suit symbol
U+02662	♦	♦	♦	♦	♦		<code>\diamondsuit<sup>(p)</sup></code>	diamond suit symbol
U+02663	♣	♣	♣	♣	♣	♣	<code>\clubsuit<sup>(p)</sup></code>	club suit symbol
U+02664	♠	♠	♠	♠	♠		<code>\varspadesuit</code>	spade, white (card suit)
U+02665	♥	♥	♥	♥	♥	♥	<code>\varheartsuit</code>	filled heart (card suit)
U+02666	♦	♦	♦	♦	♦	♦	<code>\vardiamondsuit</code>	filled diamond (card suit)
U+02667	♣	♣	♣	♣	♣		<code>\varclubsuit</code>	club, white (card suit)
U+02669		♪	♪				<code>\quarternote</code>	music note (sung text sign)
U+0266A	♪	♪	♪	♪	♪	♪	<code>\eighthnote</code>	eighth note
U+0266B		♪	♪			♪	<code>\twonotes</code>	beamed eighth notes

USV	L	X	S	P	D	F	Macro	Description
U+0266D							<code>\flat<sup>(P)</sup></code>	musical flat
U+0266E							<code>\natural<sup>(P)</sup></code>	music natural
U+0266F							<code>\sharp<sup>(P)</sup></code>	musical sharp
U+0267E							<code>\acidfree</code>	permanent paper sign
U+02680							<code>\dicei</code>	die face-1
U+02681							<code>\diceii</code>	die face-2
U+02682							<code>\diceiii</code>	die face-3
U+02683							<code>\diceiv</code>	die face-4
U+02684							<code>\dicev</code>	die face-5
U+02685							<code>\dicevi</code>	die face-6
U+02686							<code>\circledrightdot</code>	white circle with dot right
U+02687							<code>\circledtwodots</code>	white circle with two dots
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

USV	L	X	S	P	D	F	Macro	Description
U+0279B							<code>\draftingarrow</code>	right arrow with bold head (drafting)
U+027C0							<code>\threedangle</code>	three dimensional angle
U+027C1							<code>\whiteinwhitetrangle</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
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

USV	L	X	S	P	D	F	Macro	Description
U+0299D							<code>\rightangledot</code>	measured right angle with dot
U+0299E							<code>\angles</code>	angle with s inside
U+0299F							<code>\angdnr</code>	acute angle
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
U+029AE							<code>\measanglerdtose</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

USV	L	X	S	P	D	F	Macro	Description
U+029B0							<code>\reveltyset</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>\uparrowwocircle</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
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>\iifin</code>	incomplete infinity
U+029DD							<code>\tieinfy</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

USV	L	X	S	P	D	F	Macro	Description
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
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>\squareurblack</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>\lgbksquare</code>	black large square
U+02B1C							<code>\lgwhtsquare</code>	white large square

USV	L	X	S	P	D	F	Macro	Description
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
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>\smbldlozenge</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



USV	L	X	S	P	D	F	Macro	Description
U+03012		〒	〒				\postalmark	postal mark
U+03030		⤿	⤿				\hzigzag	zigzag
U+1D7CE	0	0	0	0	0	0	\mbfzero	mathematical bold digit 0
U+1D7CF	1	1	1	1	1	1	\mbfone	mathematical bold digit 1
U+1D7D0	2	2	2	2	2	2	\mbftwo	mathematical bold digit 2
U+1D7D1	3	3	3	3	3	3	\mbfthree	mathematical bold digit 3
U+1D7D2	4	4	4	4	4	4	\mbffour	mathematical bold digit 4
U+1D7D3	5	5	5	5	5	5	\mbffive	mathematical bold digit 5
U+1D7D4	6	6	6	6	6	6	\mbfsix	mathematical bold digit 6
U+1D7D5	7	7	7	7	7	7	\mbfseven	mathematical bold digit 7
U+1D7D6	8	8	8	8	8	8	\mbfeight	mathematical bold digit 8
U+1D7D7	9	9	9	9	9	9	\mbfnine	mathematical bold digit 9
U+1D7D8	0	0	0	0	0	0	\Bbbzero	mathematical double-struck digit 0
U+1D7D9	1	1	1	1	1	1	\Bbbone	mathematical double-struck digit 1
U+1D7DA	2	2	2	2	2	2	\Bbbtwo	mathematical double-struck digit 2
U+1D7DB	3	3	3	3	3	3	\Bbbthree	mathematical double-struck digit 3
U+1D7DC	4	4	4	4	4	4	\Bbbfour	mathematical double-struck digit 4
U+1D7DD	5	5	5	5	5	5	\Bbbfive	mathematical double-struck digit 5
U+1D7DE	6	6	6	6	6	6	\Bbbsix	mathematical double-struck digit 6
U+1D7DF	7	7	7	7	7	7	\Bbbseven	mathematical double-struck digit 7
U+1D7E0	8	8	8	8	8	8	\Bbbeight	mathematical double-struck digit 8
U+1D7E1	9	9	9	9	9	9	\Bbbnine	mathematical double-struck digit 9
U+1D7E2	0	0	0	0	0	0	\msanszero	mathematical sans-serif digit 0
U+1D7E3	1	1	1	1	1	1	\msansone	mathematical sans-serif digit 1

USV	L	X	S	P	D	F	Macro	Description
U+1D7E4	2	2	2	2	2		<code>\msanstwo</code>	mathematical sans-serif digit 2
U+1D7E5	3	3	3	3	3		<code>\msanstthree</code>	mathematical sans-serif digit 3
U+1D7E6	4	4	4	4	4		<code>\msansfour</code>	mathematical sans-serif digit 4
U+1D7E7	5	5	5	5	5		<code>\msansfive</code>	mathematical sans-serif digit 5
U+1D7E8	6	6	6	6	6		<code>\msanssix</code>	mathematical sans-serif digit 6
U+1D7E9	7	7	7	7	7		<code>\msansseven</code>	mathematical sans-serif digit 7
U+1D7EA	8	8	8	8	8		<code>\msanseight</code>	mathematical sans-serif digit 8
U+1D7EB	9	9	9	9	9		<code>\msansnine</code>	mathematical sans-serif digit 9
U+1D7EC	0	0	0	0	0		<code>\mbfsanszero</code>	mathematical sans-serif bold digit 0
U+1D7ED	1	1	1	1	1		<code>\mbfsansone</code>	mathematical sans-serif bold digit 1
U+1D7EE	2	2	2	2	2		<code>\mbfsanstwo</code>	mathematical sans-serif bold digit 2
U+1D7EF	3	3	3	3	3		<code>\mbfsanstthree</code>	mathematical sans-serif bold digit 3
U+1D7F0	4	4	4	4	4		<code>\mbfsansfour</code>	mathematical sans-serif bold digit 4
U+1D7F1	5	5	5	5	5		<code>\mbfsansfive</code>	mathematical sans-serif bold digit 5
U+1D7F2	6	6	6	6	6		<code>\mbfsanssix</code>	mathematical sans-serif bold digit 6
U+1D7F3	7	7	7	7	7		<code>\mbfsansseven</code>	mathematical sans-serif bold digit 7
U+1D7F4	8	8	8	8	8		<code>\mbfsanseight</code>	mathematical sans-serif bold digit 8
U+1D7F5	9	9	9	9	9		<code>\mbfsansnine</code>	mathematical sans-serif bold digit 9
U+1D7F6	0	0	0	0	0		<code>\mttzero</code>	mathematical monospace digit 0
U+1D7F7	1	1	1	1	1		<code>\mttone</code>	mathematical monospace digit 1
U+1D7F8	2	2	2	2	2		<code>\mttwo</code>	mathematical monospace digit 2
U+1D7F9	3	3	3	3	3		<code>\mtthree</code>	mathematical monospace digit 3
U+1D7FA	4	4	4	4	4		<code>\mttfour</code>	mathematical monospace digit 4
U+1D7FB	5	5	5	5	5		<code>\mttfive</code>	mathematical monospace digit 5

USV	L	X	S	P	D	F	Macro	Description
U+1D7FC	6	6	6	6	6		<code>\mttsix</code>	mathematical monospace digit 6
U+1D7FD	7	7	7	7	7		<code>\mttseven</code>	mathematical monospace digit 7
U+1D7FE	8	8	8	8	8		<code>\mtteight</code>	mathematical monospace digit 8
U+1D7FF	9	9	9	9	9		<code>\mttnine</code>	mathematical monospace digit 9

## 12 Relation symbols, `\mathrel`

USV	L	X	S	P	D	F	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>	<code>/leftarrow</code> /gets a: leftward arrow
U+02191	↑	↑	↑	↑	↑	↑	<code>\uparrow<sup>(p)</sup></code>	upward arrow
U+02192	→	→	→	→	→	→	<code>\rightarrow<sup>(p)</sup></code>	<code>/rightarrow</code> /to a: rightward arrow
U+02193	↓	↓	↓	↓	↓	↓	<code>\downarrow<sup>(p)</sup></code>	downward arrow
U+02194	↔	↔	↔	↔	↔	↔	<code>\leftrightharrow<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
U+021A1	⇩	⇩	⇩	⇩	⇩	⇩	<code>\twoheaddownarrow</code>	down two-headed arrow
U+021A2	↵	↵	↵	↵	↵		<code>\leftarrowtail<sup>(a)</sup></code>	left arrow-tailed

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

USV	L	X	S	P	D	F	Macro	Description
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>\rightleftarpoons<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
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

USV	L	X	S	P	D	F	Macro	Description
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>\barrightarrow</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>\nleftarrow</code>	leftwards arrow with vertical stroke
U+021F8							<code>\nrightarrow</code>	rightwards arrow with vertical stroke
U+021F9							<code>\nleftrightharrow</code>	left right arrow with vertical stroke
U+021FA							<code>\Nleftarrow</code>	leftwards arrow with double vertical stroke
U+021FB							<code>\Nrightarrow</code>	rightwards arrow with double vertical stroke
U+021FC							<code>\Nleftrightharrow</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

usv	L	X	S	P	D	F	Macro	Description
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 (-:)
U+0223A	⋮	⋮	⋮	⋮	⋮	⋮	<code>\dotsminusdots</code>	minus with four dots, geometric properties
U+0223B	⋈	⋈	⋈	⋈	⋈	⋈	<code>\kernelcontraction</code>	homothetic
U+0223C	≈	≈	≈	≈	≈	≈	<code>\sim<sup>(p)</sup></code>	similar
U+0223D	↷	↷	↷	↷	↷	↷	<code>\backsim<sup>(a)</sup></code>	reverse similar
U+02241	⋈	⋈	⋈	⋈	⋈	⋈	<code>\nsim<sup>(a)</sup></code>	not similar
U+02242	⋈	⋈	⋈	⋈	⋈	⋈	<code>\eqsim<sup>(a)</sup></code>	equals, similar
U+02243	⋈	⋈	⋈	⋈	⋈	⋈	<code>\simeq<sup>(p)</sup></code>	similar, equals
U+02244	⋈	⋈	⋈	⋈	⋈	⋈	<code>\nsime</code>	not similar, equals
U+02243	⋈	⋈	⋈	⋈	⋈	⋈	<code>\sime</code>	similar, equals (alias)
U+02244	⋈	⋈	⋈	⋈	⋈	⋈	<code>\nsimeq</code>	not similar, equals (alias)
U+02245	≡	≡	≡	≡	≡	≡	<code>\cong<sup>(l)</sup></code>	congruent with
U+02246	≇	≇	≇	≇	≇	≇	<code>\simneqq</code>	similar, not equals [vert only for 9573 entity]
U+02247	≇	≇	≇	≇	≇	≇	<code>\ncong<sup>(a)</sup></code>	not congruent with
U+02248	≈	≈	≈	≈	≈	≈	<code>\approx<sup>(p)</sup></code>	approximate



USV	L	X	S	P	D	F	Macro	Description
U+02249	$\not\approx$	$\not\approx$	$\not\approx$	$\not\approx$	$\not\approx$	$\not\approx$	<code>\napprox</code>	not approximate
U+0224A	$\approx$	$\approx$	$\approx$	$\approx$	$\approx$	$\approx$	<code>\approx</code> <sup>(a)</sup>	approximate, equals
U+0224B	$\approx$	$\approx$	$\approx$	$\approx$	$\approx$	$\approx$	<code>\approxident</code>	approximately identical to
U+0224C	$\cong$	$\cong$	$\cong$	$\cong$	$\cong$	$\cong$	<code>\backcong</code>	all equal to
U+0224D	$\asymp$	$\asymp$	$\asymp$	$\asymp$	$\asymp$	$\asymp$	<code>\asymp</code> <sup>(p)</sup>	asymptotically equal to
U+0224E	$\bumpeq$	$\bumpeq$	$\bumpeq$	$\bumpeq$	$\bumpeq$	$\bumpeq$	<code>\Bumpeq</code> <sup>(a)</sup>	bumpy equals
U+0224F	$\bumpeq$	$\bumpeq$	$\bumpeq$	$\bumpeq$	$\bumpeq$	$\bumpeq$	<code>\bumpeq</code> <sup>(a)</sup>	bumpy equals, equals
U+02250	$\doteq$	$\doteq$	$\doteq$	$\doteq$	$\doteq$	$\doteq$	<code>\doteq</code> <sup>(l)</sup>	equals, single dot above
U+02251	$\doteqdot$	$\doteqdot$	$\doteqdot$	$\doteqdot$	$\doteqdot$	$\doteqdot$	<code>\Doteq</code> <sup>(a)</sup>	<code>/doteqdot /doteq r</code> : equals, even dots
U+02252	$\fallingdotseq$	$\fallingdotseq$	$\fallingdotseq$	$\fallingdotseq$	$\fallingdotseq$	$\fallingdotseq$	<code>\fallingdotseq</code> <sup>(a)</sup>	equals, falling dots
U+02253	$\risingdotseq$	$\risingdotseq$	$\risingdotseq$	$\risingdotseq$	$\risingdotseq$	$\risingdotseq$	<code>\risingdotseq</code> <sup>(a)</sup>	equals, rising dots
U+02254	$\coloneqq$	$\coloneqq$	$\coloneqq$	$\coloneqq$	$\coloneqq$	$\coloneqq$	<code>\coloneq</code>	colon, equals
U+02255	$\eqcolon$	$\eqcolon$	$\eqcolon$	$\eqcolon$	$\eqcolon$	$\eqcolon$	<code>\eqcolon</code>	equals, colon
U+02256	$\eqcirc$	$\eqcirc$	$\eqcirc$	$\eqcirc$	$\eqcirc$	$\eqcirc$	<code>\eqcirc</code> <sup>(a)</sup>	circle on equals sign
U+02257	$\circeq$	$\circeq$	$\circeq$	$\circeq$	$\circeq$	$\circeq$	<code>\circeq</code> <sup>(a)</sup>	circle, equals
U+02258	$\arceq$	$\arceq$	$\arceq$	$\arceq$	$\arceq$	$\arceq$	<code>\arceq</code>	arc, equals; corresponds to
U+02259	$\wedgeq$	$\wedgeq$	$\wedgeq$	$\wedgeq$	$\wedgeq$	$\wedgeq$	<code>\wedgeq</code>	corresponds to (wedge, equals)
U+0225A	$\veeeq$	$\veeeq$	$\veeeq$	$\veeeq$	$\veeeq$	$\veeeq$	<code>\veeeq</code>	logical or, equals
U+0225B	$\stareq$	$\stareq$	$\stareq$	$\stareq$	$\stareq$	$\stareq$	<code>\stareq</code>	star equals
U+0225C	$\triangleq$	$\triangleq$	$\triangleq$	$\triangleq$	$\triangleq$	$\triangleq$	<code>\triangleq</code> <sup>(a)</sup>	triangle, equals
U+0225D	$\eqdef$	$\eqdef$	$\eqdef$	$\eqdef$	$\eqdef$	$\eqdef$	<code>\eqdef</code>	equals by definition
U+0225E	$\measeq$	$\measeq$	$\measeq$	$\measeq$	$\measeq$	$\measeq$	<code>\measeq</code>	measured by (m over equals)
U+0225F	$\questeq$	$\questeq$	$\questeq$	$\questeq$	$\questeq$	$\questeq$	<code>\questeq</code>	equal with questionmark
U+02260	$\neq$	$\neq$	$\neq$	$\neq$	$\neq$	$\neq$	<code>\ne</code> <sup>(p)</sup>	<code>/ne /neq r</code> : not equal

usv	L	X	S	P	D	F	Macro	Description
U+02261	≡	≡	≡	≡	≡	≡	<code>\equiv<sup>(p)</sup></code>	identical with
U+02262	≢	≢	≢	≢	≢	≢	<code>\nequiv</code>	not identical with
U+02263	≡	≡	≡	≡	≡	≡	<code>\Equiv</code>	strict equivalence (4 lines)
U+02264	≤	≤	≤	≤	≤	≤	<code>\leq<sup>(p)</sup></code>	<code>/leq /le r</code> : less-than-or-equal
U+02265	≥	≥	≥	≥	≥	≥	<code>\geq<sup>(p)</sup></code>	<code>/geq /ge r</code> : greater-than-or-equal
U+02266	≦	≦	≦	≦	≦	≦	<code>\leqq<sup>(a)</sup></code>	less, double equals
U+02267	≧	≧	≧	≧	≧	≧	<code>\geqq<sup>(a)</sup></code>	greater, double equals
U+02268	≨	≨	≨	≨	≨	≨	<code>\lneqq<sup>(a)</sup></code>	less, not double equals
U+02269	≩	≩	≩	≩	≩	≩	<code>\gneqq<sup>(a)</sup></code>	greater, not double equals
U+0226A	≪	≪	≪	≪	≪	≪	<code>\ll<sup>(p)</sup></code>	much less than, type 2
U+0226B	≫	≫	≫	≫	≫	≫	<code>\gg<sup>(p)</sup></code>	much greater than, type 2
U+0226C	⋈	⋈	⋈	⋈	⋈		<code>\between<sup>(a)</sup></code>	between
U+0226D	≍	≍	≍	≍	≍		<code>\nasymp</code>	not asymptotically equal to
U+0226E	≪	≪	≪	≪	≪	≪	<code>\nless<sup>(a)</sup></code>	not less-than
U+0226F	≫	≫	≫	≫	≫	≫	<code>\ngtr<sup>(a)</sup></code>	not greater-than
U+02270	≪	≪	≪	≪	≪	≪	<code>\nleq<sup>(a)</sup></code>	not less-than-or-equal
U+02271	≫	≫	≫	≫	≫	≫	<code>\ngeq<sup>(a)</sup></code>	not greater-than-or-equal
U+02272	≲	≲	≲	≲	≲	≲	<code>\lesssim<sup>(a)</sup></code>	less, similar
U+02273	≳	≳	≳	≳	≳	≳	<code>\gtrsim<sup>(a)</sup></code>	greater, similar
U+02274	≪	≪	≪	≪	≪	≪	<code>\nlesssim</code>	not less, similar
U+02275	≫	≫	≫	≫	≫	≫	<code>\ngtrsim</code>	not greater, similar
U+02276	≦	≦	≦	≦	≦	≦	<code>\lessgtr<sup>(a)</sup></code>	less, greater
U+02277	≧	≧	≧	≧	≧	≧	<code>\gtrless<sup>(a)</sup></code>	greater, less
U+02278	≪	≪	≪	≪	≪	≪	<code>\nlessgtr</code>	not less, greater

USV	L	X	S	P	D	F	Macro	Description
U+02279	$\nless$	$\nless$	$\nless$	$\nless$	$\nless$	$\nless$	<code>\ngtrless</code>	not greater, less
U+0227A	$\prec$	$\prec$	$\prec$	$\prec$	$\prec$	$\prec$	<code>\prec<sup>(p)</sup></code>	precedes
U+0227B	$\succ$	$\succ$	$\succ$	$\succ$	$\succ$	$\succ$	<code>\succ<sup>(p)</sup></code>	succeeds
U+0227C	$\preccurlyeq$	$\preccurlyeq$	$\preccurlyeq$	$\preccurlyeq$	$\preccurlyeq$	$\preccurlyeq$	<code>\preccurlyeq<sup>(a)</sup></code>	precedes, curly equals
U+0227D	$\succcurlyeq$	$\succcurlyeq$	$\succcurlyeq$	$\succcurlyeq$	$\succcurlyeq$	$\succcurlyeq$	<code>\succcurlyeq<sup>(a)</sup></code>	succeeds, curly equals
U+0227E	$\precsim$	$\precsim$	$\precsim$	$\precsim$	$\precsim$	$\precsim$	<code>\precsim<sup>(a)</sup></code>	precedes, similar
U+0227F	$\succsim$	$\succsim$	$\succsim$	$\succsim$	$\succsim$	$\succsim$	<code>\succsim<sup>(a)</sup></code>	succeeds, similar
U+02280	$\nprec$	$\nprec$	$\nprec$	$\nprec$	$\nprec$	$\nprec$	<code>\nprec<sup>(a)</sup></code>	not precedes
U+02281	$\nsucc$	$\nsucc$	$\nsucc$	$\nsucc$	$\nsucc$	$\nsucc$	<code>\nsucc<sup>(a)</sup></code>	not succeeds
U+02282	$\subset$	$\subset$	$\subset$	$\subset$	$\subset$	$\subset$	<code>\subset<sup>(p)</sup></code>	subset or is implied by
U+02283	$\supset$	$\supset$	$\supset$	$\supset$	$\supset$	$\supset$	<code>\supset<sup>(p)</sup></code>	superset or implies
U+02284	$\not\subset$	$\not\subset$	$\not\subset$	$\not\subset$	$\not\subset$	$\not\subset$	<code>\nsubset</code>	not subset, variant [slash negation]
U+02285	$\not\supset$	$\not\supset$	$\not\supset$	$\not\supset$	$\not\supset$	$\not\supset$	<code>\nsupset</code>	not superset, variant [slash negation]
U+02286	$\subseteq$	$\subseteq$	$\subseteq$	$\subseteq$	$\subseteq$	$\subseteq$	<code>\subseteq<sup>(p)</sup></code>	subset, equals
U+02287	$\supseteq$	$\supseteq$	$\supseteq$	$\supseteq$	$\supseteq$	$\supseteq$	<code>\supseteq<sup>(p)</sup></code>	superset, equals
U+02288	$\not\subseteq$	$\not\subseteq$	$\not\subseteq$	$\not\subseteq$	$\not\subseteq$	$\not\subseteq$	<code>\nsubseteq<sup>(a)</sup></code>	not subset, equals
U+02289	$\not\supseteq$	$\not\supseteq$	$\not\supseteq$	$\not\supseteq$	$\not\supseteq$	$\not\supseteq$	<code>\nsupseteq<sup>(a)</sup></code>	not superset, equals
U+0228A	$\subsetneq$	$\subsetneq$	$\subsetneq$	$\subsetneq$	$\subsetneq$	$\subsetneq$	<code>\subsetneq<sup>(a)</sup></code>	subset, not equals
U+0228B	$\supsetneq$	$\supsetneq$	$\supsetneq$	$\supsetneq$	$\supsetneq$	$\supsetneq$	<code>\supsetneq<sup>(a)</sup></code>	superset, not equals
U+0228F	$\sqsubset$	$\sqsubset$	$\sqsubset$	$\sqsubset$	$\sqsubset$	$\sqsubset$	<code>\sqsubset</code>	square subset
U+02290	$\sqsupset$	$\sqsupset$	$\sqsupset$	$\sqsupset$	$\sqsupset$	$\sqsupset$	<code>\sqsupset</code>	square superset
U+02291	$\sqsubseteq$	$\sqsubseteq$	$\sqsubseteq$	$\sqsubseteq$	$\sqsubseteq$	$\sqsubseteq$	<code>\sqsubseteq<sup>(p)</sup></code>	square subset, equals
U+02292	$\sqsupseteq$	$\sqsupseteq$	$\sqsupseteq$	$\sqsupseteq$	$\sqsupseteq$	$\sqsupseteq$	<code>\sqsupseteq<sup>(p)</sup></code>	square superset, equals
U+022A2	$\vdash$	$\vdash$	$\vdash$	$\vdash$	$\vdash$	$\vdash$	<code>\vdash<sup>(p)</sup></code>	vertical, dash

USV	L	X	S	P	D	F	Macro	Description
U+022A3	┆	┆	┆	┆	┆		<code>\dashv<sup>(p)</sup></code>	dash, vertical
U+022A6	┆	┆	┆	┆	┆		<code>\assert</code>	assertion (vertical, short dash)
U+022A7	┆	┆	┆	┆	┆		<code>\models<sup>(p)</sup></code>	models (vertical, short double dash)
U+022A8	┆	┆	┆	┆	┆		<code>\vDash<sup>(a)</sup></code>	vertical, double dash
U+022A9	┆	┆	┆	┆	┆		<code>\Vdash<sup>(a)</sup></code>	double vertical, dash
U+022AA	┆	┆	┆	┆	┆		<code>\Vvdash<sup>(a)</sup></code>	triple vertical, dash
U+022AB	┆	┆	┆	┆	┆		<code>\VDash</code>	double vert, double dash
U+022AC	┆	┆	┆	┆	┆		<code>\nvDash<sup>(a)</sup></code>	not vertical, dash
U+022AD	┆	┆	┆	┆	┆		<code>\nvDash<sup>(a)</sup></code>	not vertical, double dash
U+022AE	┆	┆	┆	┆	┆		<code>\NVdash<sup>(a)</sup></code>	not double vertical, dash
U+022AF	┆	┆	┆	┆	┆		<code>\NVDash<sup>(a)</sup></code>	not double vert, double dash
U+022B0		↯	↯				<code>\prurel</code>	element precedes under relation
U+022B1		↰	↰				<code>\scurrel</code>	succeeds under relation
U+022B2	◁	◁	◁	◁	◁		<code>\vartriangleleft<sup>(a)</sup></code>	left triangle, open, variant
U+022B3	▷	▷	▷	▷	▷		<code>\vartriangleright<sup>(a)</sup></code>	right triangle, open, variant
U+022B4	◁	◁	◁	◁	◁		<code>\trianglelefteq<sup>(a)</sup></code>	left triangle, equals
U+022B5	▷	▷	▷	▷	▷		<code>\trianglerighteq<sup>(a)</sup></code>	right triangle, equals
U+022B6	⊙	⊙	⊙	⊙	⊙		<code>\origof</code>	original of
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













































USV	L	X	S	P	D	F	Macro	Description
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 /llless 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>\nprec curlyeq</code>	not precedes, curly equals
U+022E1	⤵	⤵	⤵	⤵	⤵	⤵	<code>\succ curlyeq</code>	not succeeds, curly equals
U+022E2	⊄	⊄	⊄	⊄	⊄	⊄	<code>\sqsubseteq</code>	not, square subset, equals
U+022E3	⊅	⊅	⊅	⊅	⊅	⊅	<code>\sqsupseteq</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

USV	L	X	S	P	D	F	Macro	Description
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
U+022F7							<code>\isinobar</code>	small element of with overbar
U+022F8							<code>\isinvb</code>	element of with underbar
U+022F9							<code>\isinE</code>	element of with two horizontal strokes
U+022FA							<code>\nisd</code>	contains with long horizontal stroke
U+022FB							<code>\varnis</code>	contains with vertical bar at end of horizontal stroke
U+022FC							<code>\nis</code>	small contains with vertical bar at end of horizontal stroke
U+022FD							<code>\varniobar</code>	contains with overbar
U+022FE							<code>\niobar</code>	small contains with overbar
U+022FF							<code>\bagmember</code>	z notation bag membership
U+02322							<code>\frown<sup>(p)</sup></code>	down curve
U+02323							<code>\smile<sup>(p)</sup></code>	up curve
U+0233F							<code>\APLnotslash</code>	solidus, bar through (apl functional symbol slash bar)
U+025B5							<code>\vartriangle<sup>(a)</sup></code>	/triangle - up triangle, open

USV	L	X	S	P	D	F	Macro	Description
U+027C2							<code>\perp<sup>(p)</sup></code>	perpendicular
U+027C8							<code>\bsolhsb</code>	reverse solidus preceding subset
U+027C9							<code>\suphsol</code>	superset preceding solidus
U+027D2							<code>\upin</code>	element of opening upwards
U+027D3							<code>\pullback</code>	lower right corner with dot
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>\acwgapcirclearrow</code>	anticlockwise gapped circle arrow
U+027F3							<code>\cwgapcirclearrow</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>\Llongleftarrow<sup>(p)</sup></code>	long leftwards double arrow
U+027F9							<code>\Llongrightarrow<sup>(p)</sup></code>	long rightwards double arrow
U+027FA							<code>\Llongleftrightarrow<sup>(p)</sup></code>	long left right double arrow
U+027FB							<code>\longmapsfrom</code>	long leftwards arrow from bar

USV	L	X	S	P	D	F	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>\nvrightarrow</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>\Downarrow</code>	downwards triple arrow
U+0290C							<code>\leftbkarrow</code>	leftwards double dash arrow
U+0290D							<code>\rightbkarrow</code>	rightwards double dash arrow
U+0290E							<code>\leftdbkarrow</code>	leftwards triple dash arrow
U+0290F							<code>\dbkarrow</code>	rightwards triple dash arrow
U+02910							<code>\drbkarrow</code>	rightwards two-headed triple dash arrow



usv	L	X	S	P	D	F	Macro	Description
U+02911							<code>\rightrightarrow</code>	rightwards arrow with dotted stem
U+02912							<code>\baruparrow</code>	upwards arrow to bar
U+02913							<code>\downarrowbar</code>	downwards arrow to bar
U+02914							<code>\nvrightarrowtail</code>	rightwards arrow with tail with vertical stroke
U+02915							<code>\Nvrightarrowtail</code>	rightwards arrow with tail with double vertical stroke
U+02916							<code>\twoheadrightarrowtail</code>	rightwards two-headed arrow with tail
U+02917							<code>\nvtwoheadrightarrowtail</code>	rightwards two-headed arrow with tail with vertical stroke
U+02918							<code>\Nvtwoheadrightarrowtail</code>	rightwards two-headed arrow with tail with double vertical stroke
U+02919							<code>\lefttail</code>	leftwards arrow-tail
U+0291A							<code>\righttail</code>	rightwards arrow-tail
U+0291B							<code>\leftdbltail</code>	leftwards double arrow-tail
U+0291C							<code>\rightdbltail</code>	rightwards double arrow-tail
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

usv	L	X	S	P	D	F	Macro	Description
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
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

usv	L	X	S	P	D	F	Macro	Description
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
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>\barleftarrowup</code>	leftwards harpoon with barb up to bar
U+02953							<code>\barrightarrowup</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>\barleftarrowdown</code>	leftwards harpoon with barb down to bar
U+02957							<code>\barrightarrowdown</code>	rightwards harpoon with barb down to bar
U+02958							<code>\barupharpoonleft</code>	upwards harpoon with barb left to bar
U+02959							<code>\downharpoonleftbar</code>	downwards harpoon with barb left to bar

usv	L	X	S	P	D	F	Macro	Description
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
U+02966		⇐	⇐				<code>\leftrightharpoonsup</code>	leftwards harpoon with barb up above rightwards harpoon with barb up
U+02967		⇒	⇒				<code>\leftrightharpoonsdown</code>	leftwards harpoon with barb down above rightwards harpoon with barb down
U+02968		⇐	⇐				<code>\rightleftharpoonsup</code>	rightwards harpoon with barb up above leftwards harpoon with barb up
U+02969		⇓	⇓				<code>\rightleftharpoonsdown</code>	rightwards harpoon with barb down above leftwards harpoon with barb down

usv	L	X	S	P	D	F	Macro	Description
U+0296A		$\Leftarrow$	$\Leftrightarrow$				<code>\leftharpoonupdash</code>	leftwards harpoon with barb up above long dash
U+0296B		$\dashleftarrow$	$\dashleftrightarrow$				<code>\dashleftharpoonowdown</code>	leftwards harpoon with barb down below long dash
U+0296C		$\Rightarrow$	$\Rrightarrow$				<code>\rightharpoonupdash</code>	rightwards harpoon with barb up above long dash
U+0296D		$\Rightarrow$	$\Rrightarrow$				<code>\dashrightharpoonowdown</code>	rightwards harpoon with barb down below long dash
U+0296E		$\Updownarrow$	$\Updownarrow$			$\Updownarrow$	<code>\updownharpoonsleftright</code>	upwards harpoon with barb left beside downwards harpoon with barb right
U+0296F		$\Downarrow$	$\Downarrow$			$\Downarrow$	<code>\downupharpoonsleftright</code>	downwards harpoon with barb left beside upwards harpoon with barb right
U+02970		$\Rightarrow$	$\Rightarrow$				<code>\rightimply</code>	right double arrow with rounded head
U+02971		$\Rightarrow$	$\Rightarrow$				<code>\equalrightarrow</code>	equals sign above rightwards arrow
U+02972		$\Rightarrow$	$\Rightarrow$				<code>\similarrightarrow</code>	tilde operator above rightwards arrow
U+02973		$\Leftarrow$	$\Leftarrow$				<code>\leftarrowsimilar</code>	leftwards arrow above tilde operator
U+02974		$\Rightarrow$	$\Rightarrow$				<code>\rightarrowsimilar</code>	rightwards arrow above tilde operator
U+02975		$\Rightarrow$	$\Rightarrow$				<code>\rightarrowapprox</code>	rightwards arrow above almost equal to
U+02976		$\Leftarrow$	$\Leftarrow$				<code>\ltlarr</code>	less-than above leftwards arrow
U+02977		$\Leftarrow$	$\Leftarrow$				<code>\leftarrowless</code>	leftwards arrow through less-than
U+02978		$\Rightarrow$	$\Rightarrow$				<code>\gtrarr</code>	greater-than above rightwards arrow
U+02979		$\Rightarrow$	$\Rightarrow$				<code>\subrarr</code>	subset above rightwards arrow
U+0297A		$\Leftarrow$	$\Leftarrow$				<code>\leftarrowsubset</code>	leftwards arrow through subset
U+0297B		$\Leftarrow$	$\Leftarrow$				<code>\suplarr</code>	superset above leftwards arrow
U+0297C		$\rightarrow$	$\rightarrow$				<code>\leftfishtail</code>	left fish tail
U+0297D		$\rightarrow$	$\rightarrow$				<code>\rightfishtail</code>	right fish tail

USV	L	X	S	P	D	F	Macro	Description
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
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 overlapping 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

USV	L	X	S	P	D	F	Macro	Description
U+02A6A		˘	˘				\dotsim	tilde operator with dot above
U+02A6B		˘	˘				\simrdots	tilde operator with rising dots
U+02A6C		≈	≈				\simminussim	similar minus similar
U+02A6D		≍	≍				\congdot	congruent with dot above
U+02A6E		≍*	≍*				\asteq	equals with asterisk
U+02A6F		≈̂	≈̂				\hatapprox	almost equal to with circumflex accent
U+02A70		≈≈	≈≈				\approxpeq	approximately equal or equal to
U+02A73		≈̃	≈̃				\eqqsim	equals sign above tilde operator
U+02A74		∴	∴				\Coloneq	double colon equal
U+02A75		==	==				\eqeq	two consecutive equals signs
U+02A76		===	===				\eqeqeq	three consecutive equals signs
U+02A77		∴̇	∴̇				\ddotseq	equals sign with two dots above and two dots below
U+02A78		≍≍≍	≍≍≍				\equivDD	equivalent with four dots above
U+02A79		⋈	⋈				\lrcir	less-than with circle inside
U+02A7A		⋉	⋉				\gtrcir	greater-than with circle inside
U+02A7B		⋈?	⋈?				\ltquest	less-than with question mark above
U+02A7C		⋉?	⋉?				\gtquest	greater-than with question mark above
U+02A7D	⋈	⋈	⋈	⋈	⋈	⋈	\leqslant <sup>(a)</sup>	less-than or slanted equal to
U+02A7E	⋉	⋉	⋉	⋉	⋉	⋉	\geqslant <sup>(a)</sup>	greater-than or slanted equal to
U+02A7F	⋈	⋈					\lesdot	less-than or slanted equal to with dot inside
U+02A80	⋉	⋉					\gesdot	greater-than or slanted equal to with dot inside
U+02A81	⋈	⋈					\lesdoto	less-than or slanted equal to with dot above

USV	L	X	S	P	D	F	Macro	Description
U+02A82		$\gtrdot$	$\lesssim$				<code>\gesdoto</code>	greater-than or slanted equal to with dot above
U+02A83		$\gtrdot$	$\lesssim$				<code>\lesdotor</code>	less-than or slanted equal to with dot above right
U+02A84		$\gtrdot$	$\lesssim$				<code>\gesdoto1</code>	greater-than or slanted equal to with dot above left
U+02A85	$\gtrapprox$	$\gtrapprox$	$\lesssim$	$\gtrapprox$	$\gtrapprox$		<code>\lessapprox<sup>(a)</sup></code>	less-than or approximate
U+02A86	$\gtrapprox$	$\gtrapprox$	$\lesssim$	$\gtrapprox$	$\gtrapprox$		<code>\gtrapprox<sup>(a)</sup></code>	greater-than or approximate
U+02A87	$\lneq$	$\lneq$	$\lneq$	$\lneq$	$\lneq$		<code>\lneq<sup>(a)</sup></code>	less-than and single-line not equal to
U+02A88	$\gneq$	$\gneq$	$\gneq$	$\gneq$	$\gneq$		<code>\gneq<sup>(a)</sup></code>	greater-than and single-line not equal to
U+02A89	$\lnotapprox$	$\lnotapprox$	$\lnotapprox$	$\lnotapprox$	$\lnotapprox$		<code>\lnapprox<sup>(a)</sup></code>	less-than and not approximate
U+02A8A	$\gnapprox$	$\gnapprox$	$\gnapprox$	$\gnapprox$	$\gnapprox$		<code>\gnapprox<sup>(a)</sup></code>	greater-than and not approximate
U+02A8B	$\lesseqgtr$	$\lesseqgtr$	$\lesseqgtr$	$\lesseqgtr$	$\lesseqgtr$		<code>\lesseqgtr<sup>(a)</sup></code>	less-than above double-line equal above greater-than
U+02A8C	$\gtreqless$	$\gtreqless$	$\gtreqless$	$\gtreqless$	$\gtreqless$		<code>\gtreqless<sup>(a)</sup></code>	greater-than above double-line equal above less-than
U+02A8D		$\lrsim$	$\lrsim$				<code>\lsime</code>	less-than above similar or equal
U+02A8E		$\lrsim$	$\lrsim$				<code>\gsime</code>	greater-than above similar or equal
U+02A8F		$\lrsim$	$\lrsim$				<code>\lsimg</code>	less-than above similar above greater-than
U+02A90		$\lrsim$	$\lrsim$				<code>\gsiml</code>	greater-than above similar above less-than
U+02A91		$\lrsim$	$\lrsim$				<code>\lgE</code>	less-than above greater-than above double-line equal
U+02A92		$\lrsim$	$\lrsim$				<code>\glE</code>	greater-than above less-than above double-line equal
U+02A93		$\lrsim$	$\lrsim$				<code>\lesges</code>	less-than above slanted equal above greater-than above slanted equal
U+02A94		$\lrsim$	$\lrsim$				<code>\gesles</code>	greater-than above slanted equal above less-than above slanted equal
U+02A95	$\leslant$	$\leslant$	$\leslant$	$\leslant$	$\leslant$		<code>\eqslantless<sup>(a)</sup></code>	slanted equal to or less-than



USV	L	X	S	P	D	F	Macro	Description
U+02A96	➤	➤	➤	➤	➤		<code>\eqslantgtr</code> <sup>(a)</sup>	slanted equal to or greater-than
U+02A97		⋈	⋈				<code>\elsdot</code>	slanted equal to or less-than with dot inside
U+02A98		⋉	⋉				<code>\egsdot</code>	slanted equal to or greater-than with dot inside
U+02A99		⋍	⋍				<code>\eqqlless</code>	double-line equal to or less-than
U+02A9A		⋎	⋎				<code>\eqqgtr</code>	double-line equal to or greater-than
U+02A9B		⋏	⋏				<code>\eqqslantless</code>	double-line slanted equal to or less-than
U+02A9C		⋐	⋐				<code>\eqqslantgtr</code>	double-line slanted equal to or greater-than
U+02A9D		⋑	⋑				<code>\simless</code>	similar or less-than
U+02A9E		⋒	⋒				<code>\simgtr</code>	similar or greater-than
U+02A9F		⋓	⋓				<code>\simlE</code>	similar above less-than above equals sign
U+02AA0		⋔	⋔				<code>\simgE</code>	similar above greater-than above equals sign
U+02AA1		⋕	⋕				<code>\Lt</code>	double nested less-than
U+02AA2		⋖	⋖				<code>\Gt</code>	double nested greater-than
U+02AA3		⋗	⋗				<code>\partialmeetcontraction</code>	double less-than with underbar
U+02AA4		⋘	⋘				<code>\glj</code>	greater-than overlapping less-than
U+02AA5		⋙	⋙				<code>\gla</code>	greater-than beside less-than
U+02AA6		⋚	⋚				<code>\ltcc</code>	less-than closed by curve
U+02AA7		⋛	⋛				<code>\gtcc</code>	greater-than closed by curve
U+02AA8		⋜	⋜				<code>\lescc</code>	less-than closed by curve above slanted equal
U+02AA9		⋝	⋝				<code>\gescc</code>	greater-than closed by curve above slanted equal
U+02AAA		⋞	⋞				<code>\smt</code>	smaller than
U+02AAB		⋟	⋟				<code>\lat</code>	larger than

USV	L	X	S	P	D	F	Macro	Description
U+02AAC		$\leq$	$\leq$				<code>\smt</code>	smaller than or equal to
U+02AAD		$\geq$	$\geq$				<code>\late</code>	larger than or equal to
U+02AAE		$\approx$	$\approx$				<code>\bumpeq</code>	equals sign with bumpy above
U+02AAF	$\preceq$	$\preceq$	$\preceq$	$\preceq$	$\preceq$		<code>\preceq<sup>(p)</sup></code>	precedes above single-line equals sign
U+02AB0	$\succeq$	$\succeq$	$\succeq$	$\succeq$	$\succeq$		<code>\succeq<sup>(p)</sup></code>	succeeds above single-line equals sign
U+02AB1		$\nprec$	$\nprec$				<code>\precneq</code>	precedes above single-line not equal to
U+02AB2		$\nsuc$	$\nsuc$				<code>\succneq</code>	succeeds above single-line not equal to
U+02AB3		$\preceqq$	$\preceqq$				<code>\preceqq</code>	precedes above equals sign
U+02AB4		$\succeqq$	$\succeqq$				<code>\succeqq</code>	succeeds above equals sign
U+02AB5		$\nprecn$	$\nprecn$				<code>\precneqq<sup>(a)</sup></code>	precedes above not equal to
U+02AB6		$\nsucn$	$\nsucn$				<code>\succneqq<sup>(a)</sup></code>	succeeds above not equal to
U+02AB7		$\precc$	$\precc$				<code>\precapprox<sup>(a)</sup></code>	precedes above almost equal to
U+02AB8		$\succc$	$\succc$				<code>\succapprox<sup>(a)</sup></code>	succeeds above almost equal to
U+02AB9		$\preccn$	$\preccn$				<code>\precnapprox<sup>(a)</sup></code>	precedes above not almost equal to
U+02ABA		$\succcn$	$\succcn$				<code>\succnapprox<sup>(a)</sup></code>	succeeds above not almost equal to
U+02ABB		$\Preceq$	$\Preceq$				<code>\Prec</code>	double precedes
U+02ABC		$\Succ$	$\Succ$				<code>\Succ</code>	double succeeds
U+02ABD		$\subsetdot$	$\subsetdot$				<code>\subsetdot</code>	subset with dot
U+02ABE		$\supsetdot$	$\supsetdot$				<code>\supsetdot</code>	superset with dot
U+02ABF		$\subsetplus$	$\subsetplus$				<code>\subsetplus</code>	subset with plus sign below
U+02AC0		$\supsetplus$	$\supsetplus$				<code>\supsetplus</code>	superset with plus sign below
U+02AC1		$\subsetmult$	$\subsetmult$				<code>\subsetmult</code>	subset with multiplication sign below
U+02AC2		$\supmult$	$\supmult$				<code>\supmult</code>	superset with multiplication sign below

USV	L	X	S	P	D	F	Macro	Description
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
U+02AC7		⊆~	⊇~				<code>\subsim</code>	subset of above tilde operator
U+02AC8		⊇~	⊆~				<code>\supsim</code>	superset of above tilde operator
U+02AC9		⊆≈	⊇≈				<code>\subsetapprox</code>	subset of above almost equal to
U+02ACA		⊇≈	⊆≈				<code>\supsetapprox</code>	superset of above almost equal to
U+02ACB		⊆≠	⊇≠				<code>\subsetneqq<sup>(a)</sup></code>	subset of above not equal to
U+02ACC		⊇≠	⊆≠				<code>\supsetneqq<sup>(a)</sup></code>	superset of above not equal to
U+02ACD		⊐	⊑				<code>\lsqhook</code>	square left open box operator
U+02ACE		⊒	⊓				<code>\rsqhook</code>	square right open box operator
U+02ACF		⊔	⊕				<code>\csub</code>	closed subset
U+02AD0		⊖	⊗				<code>\csup</code>	closed superset
U+02AD1		⊔	⊕				<code>\csube</code>	closed subset or equal to
U+02AD2		⊖	⊗				<code>\csupe</code>	closed superset or equal to
U+02AD3		⊆⊃	⊇⊃				<code>\subsup</code>	subset above superset
U+02AD4		⊇⊃	⊆⊃				<code>\supsub</code>	superset above subset
U+02AD5		⊆⊂	⊇⊂				<code>\subsub</code>	subset above subset
U+02AD6		⊇⊂	⊆⊂				<code>\supsup</code>	superset above superset
U+02AD7		⊆⊂	⊇⊂				<code>\suphsub</code>	superset beside subset
U+02AD8		⊆⊂	⊇⊂				<code>\supdsub</code>	superset beside and joined by dash with subset
U+02AD9		⊎	⊏				<code>\forkv</code>	element of opening downwards
U+02ADA		⊎	⊏				<code>\topfork</code>	pitchfork with tee top

USV	L	X	S	P	D	F	Macro	Description
U+02ADB							<code>\mlcp</code>	transversal intersection
U+02ADC							<code>\forks</code>	forking
U+02ADD							<code>\forksnot</code>	nonforking
U+02ADE							<code>\shortlefttack</code>	short left tack
U+02ADF							<code>\shortdowntack</code>	short down tack
U+02AE0							<code>\shortuptack</code>	short up tack
U+02AE2							<code>\VDash</code>	vertical bar triple right turnstile
U+02AE3							<code>\dashV</code>	double vertical bar left turnstile
U+02AE4							<code>\Dashv</code>	vertical bar double left turnstile
U+02AE5							<code>\DashV</code>	double vertical bar double left turnstile
U+02AE6							<code>\varVdash</code>	long dash from left member of double vertical
U+02AE7							<code>\Barv</code>	short down tack with overbar
U+02AE8							<code>\vBar</code>	short up tack with underbar
U+02AE9							<code>\vBarv</code>	short up tack above short down tack
U+02AEA							<code>\barV</code>	double down tack
U+02AEB							<code>\Vbar</code>	double up tack
U+02AEC							<code>\Not</code>	double stroke not sign
U+02AED							<code>\bNot</code>	reversed double stroke not sign
U+02AEE							<code>\revnmid</code>	does not divide with reversed negation slash
U+02AEF							<code>\circRmid</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>\lllneq</code>	stacked very much less-than

USV	L	X	S	P	D	F	Macro	Description
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>\circleleftarrow</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
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

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

USV	L	X	S	P	D	F	Macro	Description
U+003A7	Χ	Χ	Χ	Χ	Χ	Χ	\mupChi	capital chi, greek
U+003A8	Ψ	Ψ	Ψ	Ψ	Ψ	Ψ	\mupPsi	capital psi, greek
U+003A9	Ω	Ω	Ω	Ω	Ω	Ω	\mupOmega	capital omega, greek

### 13.1.2 Upright Greek, lowercase

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



USV	L	X	S	P	D	F	Macro	Description
U+003C3	σ	σ	σ	σ	σ	σ	\mupsigma	small sigma, greek
U+003C4	τ	τ	τ	τ	τ	τ	\muptau	small tau, greek
U+003C5	υ	υ	υ	υ	υ	υ	\mupupsilon	small upsilon, greek
U+003C6	φ	φ	φ	φ	φ	φ	\mupvarphi	curly or open small phi, greek
U+003C7	χ	χ	χ	χ	χ	χ	\mupchi	small chi, greek
U+003C8	ψ	ψ	ψ	ψ	ψ	ψ	\muppsi	small psi, greek
U+003C9	ω	ω	ω	ω	ω	ω	\mupomega	small omega, greek
U+003D1	ϑ	ϑ	ϑ	ϑ	ϑ	ϑ	\mupvarthetaeta	/varthetaeta - curly or open theta
U+003D5	φ	φ	φ	φ	φ	φ	\mupphi	/straightphi - small phi, greek
U+003D6	ϖ	ϖ	ϖ	ϖ	ϖ	ϖ	\mupvarpi	rounded small pi (pomega), greek
U+003DC		Ϝ	Ϝ				\upDigamma	capital digamma
U+003DD		ϝ	ϝ				\updigamma	old greek small letter digamma
U+003F0	ϙ	ϙ	ϙ	ϙ	ϙ	ϙ	\mupvarkappa	rounded small kappa, greek
U+003F1	Ϛ	Ϛ	Ϛ	Ϛ	Ϛ	Ϛ	\mupvarrho	rounded small rho, greek
U+003F4	Θ	Θ	Θ	Θ	Θ	Θ	\mupvarTheta	greek capital theta symbol
U+003F5	ϵ	ϵ	ϵ	ϵ	ϵ	ϵ	\mupepsilon	greek lunate varepsilon symbol

### 13.1.3 Italic, Latin, uppercase

USV	L	X	S	P	D	F	Macro	Description
U+1D434	<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>	\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>	\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>	\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>	\mitE	mathematical italic capital e

USV	L	X	S	P	D	F	Macro	Description
U+1D439	<i>F</i>	<i>F</i>	<i>F</i>	<i>F</i>	<i>F</i>	<i>F</i>	<code>\mitF</code>	mathematical italic capital f
U+1D43A	<i>G</i>	<i>G</i>	<i>G</i>	<i>G</i>	<i>G</i>	<i>G</i>	<code>\mitG</code>	mathematical italic capital g
U+1D43B	<i>H</i>	<i>H</i>	<i>H</i>	<i>H</i>	<i>H</i>	<i>H</i>	<code>\mitH</code>	mathematical italic capital h
U+1D43C	<i>I</i>	<i>I</i>	<i>I</i>	<i>I</i>	<i>I</i>	<i>I</i>	<code>\mitI</code>	mathematical italic capital i
U+1D43D	<i>J</i>	<i>J</i>	<i>J</i>	<i>J</i>	<i>J</i>	<i>J</i>	<code>\mitJ</code>	mathematical italic capital j
U+1D43E	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>	<code>\mitK</code>	mathematical italic capital k
U+1D43F	<i>L</i>	<i>L</i>	<i>L</i>	<i>L</i>	<i>L</i>	<i>L</i>	<code>\mitL</code>	mathematical italic capital l
U+1D440	<i>M</i>	<i>M</i>	<i>M</i>	<i>M</i>	<i>M</i>	<i>M</i>	<code>\mitM</code>	mathematical italic capital m
U+1D441	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<code>\mitN</code>	mathematical italic capital n
U+1D442	<i>O</i>	<i>O</i>	<i>O</i>	<i>O</i>	<i>O</i>	<i>O</i>	<code>\mitO</code>	mathematical italic capital o
U+1D443	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<code>\mitP</code>	mathematical italic capital p
U+1D444	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>	<code>\mitQ</code>	mathematical italic capital q
U+1D445	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<code>\mitR</code>	mathematical italic capital r
U+1D446	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<code>\mitS</code>	mathematical italic capital s
U+1D447	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>	<code>\mitT</code>	mathematical italic capital t
U+1D448	<i>U</i>	<i>U</i>	<i>U</i>	<i>U</i>	<i>U</i>	<i>U</i>	<code>\mitU</code>	mathematical italic capital u
U+1D449	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	<code>\mitV</code>	mathematical italic capital v
U+1D44A	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<code>\mitW</code>	mathematical italic capital w
U+1D44B	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<code>\mitX</code>	mathematical italic capital x
U+1D44C	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<code>\mitY</code>	mathematical italic capital y
U+1D44D	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	<code>\mitZ</code>	mathematical italic capital z

### 13.1.4 Italic, Latin, lowercase

USV	L	X	S	P	D	F	Macro	Description
U+1D44E	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<code>\mita</code>	mathematical italic small a
U+1D44F	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>	<code>\mitb</code>	mathematical italic small b
U+1D450	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<code>\mitc</code>	mathematical italic small c
U+1D451	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>	<code>\mitd</code>	mathematical italic small d
U+1D452	<i>e</i>	<i>e</i>	<i>e</i>	<i>e</i>	<i>e</i>	<i>e</i>	<code>\mite</code>	mathematical italic small e
U+1D453	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>	<code>\mitf</code>	mathematical italic small f
U+1D454	<i>g</i>	<i>g</i>	<i>g</i>	<i>g</i>	<i>g</i>	<i>g</i>	<code>\mitg</code>	mathematical italic small g
U+1D456	<i>i</i>	<i>i</i>	<i>i</i>	<i>i</i>	<i>i</i>	<i>i</i>	<code>\miti</code>	mathematical italic small i
U+1D457	<i>j</i>	<i>j</i>	<i>j</i>	<i>j</i>	<i>j</i>	<i>j</i>	<code>\mitj</code>	mathematical italic small j
U+1D458	<i>k</i>	<i>k</i>	<i>k</i>	<i>k</i>	<i>k</i>	<i>k</i>	<code>\mitk</code>	mathematical italic small k
U+1D459	<i>l</i>	<i>l</i>	<i>l</i>	<i>l</i>	<i>l</i>	<i>l</i>	<code>\mitl</code>	mathematical italic small l
U+1D45A	<i>m</i>	<i>m</i>	<i>m</i>	<i>m</i>	<i>m</i>	<i>m</i>	<code>\mitm</code>	mathematical italic small m
U+1D45B	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<code>\mitn</code>	mathematical italic small n
U+1D45C	<i>o</i>	<i>o</i>	<i>o</i>	<i>o</i>	<i>o</i>	<i>o</i>	<code>\mito</code>	mathematical italic small o
U+1D45D	<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>	<code>\mitp</code>	mathematical italic small p
U+1D45E	<i>q</i>	<i>q</i>	<i>q</i>	<i>q</i>	<i>q</i>	<i>q</i>	<code>\mitq</code>	mathematical italic small q
U+1D45F	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<code>\mitr</code>	mathematical italic small r
U+1D460	<i>s</i>	<i>s</i>	<i>s</i>	<i>s</i>	<i>s</i>	<i>s</i>	<code>\mits</code>	mathematical italic small s
U+1D461	<i>t</i>	<i>t</i>	<i>t</i>	<i>t</i>	<i>t</i>	<i>t</i>	<code>\mitt</code>	mathematical italic small t
U+1D462	<i>u</i>	<i>u</i>	<i>u</i>	<i>u</i>	<i>u</i>	<i>u</i>	<code>\mitu</code>	mathematical italic small u
U+1D463	<i>v</i>	<i>v</i>	<i>v</i>	<i>v</i>	<i>v</i>	<i>v</i>	<code>\mitv</code>	mathematical italic small v
U+1D464	<i>w</i>	<i>w</i>	<i>w</i>	<i>w</i>	<i>w</i>	<i>w</i>	<code>\mitw</code>	mathematical italic small w
U+1D465	<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>	<code>\mitx</code>	mathematical italic small x
U+1D466	<i>y</i>	<i>y</i>	<i>y</i>	<i>y</i>	<i>y</i>	<i>y</i>	<code>\mity</code>	mathematical italic small y

USV	L	X	S	P	D	F	Macro	Description
U+1D467	<i>z</i>	<i>z</i>	<i>z</i>	<i>z</i>	<i>z</i>	<i>z</i>	<code>\mitz</code>	mathematical italic small z

### 13.1.5 Italic Greek, uppercase

USV	L	X	S	P	D	F	Macro	Description
U+1D6E2	<i>Α</i>	<i>Α</i>	<i>Α</i>	<i>Α</i>	<i>Α</i>	<i>Α</i>	<code>\mitAlpha</code>	mathematical italic capital alpha
U+1D6E3	<i>Β</i>	<i>Β</i>	<i>Β</i>	<i>Β</i>	<i>Β</i>	<i>Β</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>	<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>	<code>\mitDelta</code>	mathematical italic capital delta
U+1D6E6	<i>Ε</i>	<i>Ε</i>	<i>Ε</i>	<i>Ε</i>	<i>Ε</i>	<i>Ε</i>	<code>\mitEpsilon</code>	mathematical italic capital epsilon
U+1D6E7	<i>Ζ</i>	<i>Ζ</i>	<i>Ζ</i>	<i>Ζ</i>	<i>Ζ</i>	<i>Ζ</i>	<code>\mitZeta</code>	mathematical italic capital zeta
U+1D6E8	<i>Η</i>	<i>Η</i>	<i>Η</i>	<i>Η</i>	<i>Η</i>	<i>Η</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>	<code>\mitTheta</code>	mathematical italic capital theta
U+1D6EA	<i>Ι</i>	<i>Ι</i>	<i>Ι</i>	<i>Ι</i>	<i>Ι</i>	<i>Ι</i>	<code>\mitIota</code>	mathematical italic capital iota
U+1D6EB	<i>Κ</i>	<i>Κ</i>	<i>Κ</i>	<i>Κ</i>	<i>Κ</i>	<i>Κ</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>	<code>\mitLambda</code>	mathematical italic capital lambda
U+1D6ED	<i>Μ</i>	<i>Μ</i>	<i>Μ</i>	<i>Μ</i>	<i>Μ</i>	<i>Μ</i>	<code>\mitMu</code>	mathematical italic capital mu
U+1D6EE	<i>Ν</i>	<i>Ν</i>	<i>Ν</i>	<i>Ν</i>	<i>Ν</i>	<i>Ν</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>	<code>\mitXi</code>	mathematical italic capital xi
U+1D6F0	<i>Ο</i>	<i>Ο</i>	<i>Ο</i>	<i>Ο</i>	<i>Ο</i>	<i>Ο</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>	<code>\mitPi</code>	mathematical italic capital pi
U+1D6F2	<i>Ρ</i>	<i>Ρ</i>	<i>Ρ</i>	<i>Ρ</i>	<i>Ρ</i>	<i>Ρ</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>	<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>	<code>\mitSigma</code>	mathematical italic capital sigma
U+1D6F5	<i>Τ</i>	<i>Τ</i>	<i>Τ</i>	<i>Τ</i>	<i>Τ</i>	<i>Τ</i>	<code>\mitTau</code>	mathematical italic capital tau

USV	L	X	S	P	D	F	Macro	Description
U+1D6F6	$\Upsilon$	$\Upsilon$	$\Upsilon$	$\Upsilon$	$\Upsilon$	$\Upsilon$	<code>\mitUpsilon</code>	mathematical italic capital upsilon
U+1D6F7	$\Phi$	$\Phi$	$\Phi$	$\Phi$	$\Phi$	$\Phi$	<code>\mitPhi</code>	mathematical italic capital phi
U+1D6F8	$\Chi$	$\Chi$	$\Chi$	$\Chi$	$\Chi$	$\Chi$	<code>\mitChi</code>	mathematical italic capital chi
U+1D6F9	$\Psi$	$\Psi$	$\Psi$	$\Psi$	$\Psi$	$\Psi$	<code>\mitPsi</code>	mathematical italic capital psi
U+1D6FA	$\Omega$	$\Omega$	$\Omega$	$\Omega$	$\Omega$	$\Omega$	<code>\mitOmega</code>	mathematical italic capital omega

### 13.1.6 Italic Greek, lowercase

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

USV	L	X	S	P	D	F	Macro	Description
U+1D70C	$\rho$	$\rho$	$\rho$	$\rho$	$\rho$	$\rho$	<code>\mitrho</code>	mathematical italic small rho
U+1D70D	$\varsigma$	$\varsigma$	$\varsigma$	$\varsigma$	$\varsigma$	$\varsigma$	<code>\mitvarsigma</code>	mathematical italic small final sigma
U+1D70E	$\sigma$	$\sigma$	$\sigma$	$\sigma$	$\sigma$	$\sigma$	<code>\mitsigma</code>	mathematical italic small sigma
U+1D70F	$\tau$	$\tau$	$\tau$	$\tau$	$\tau$	$\tau$	<code>\mittau</code>	mathematical italic small tau
U+1D710	$\upsilon$	$\upsilon$	$\upsilon$	$\upsilon$	$\upsilon$	$\upsilon$	<code>\mitupsilon</code>	mathematical italic small upsilon
U+1D711	$\varphi$	$\varphi$	$\varphi$	$\varphi$	$\varphi$	$\varphi$	<code>\mitvarphi</code>	mathematical italic small phi
U+1D712	$\chi$	$\chi$	$\chi$	$\chi$	$\chi$	$\chi$	<code>\mitchi</code>	mathematical italic small chi
U+1D713	$\psi$	$\psi$	$\psi$	$\psi$	$\psi$	$\psi$	<code>\mitpsi</code>	mathematical italic small psi
U+1D714	$\omega$	$\omega$	$\omega$	$\omega$	$\omega$	$\omega$	<code>\mitomega</code>	mathematical italic small omega
U+1D715	$\partial$	$\partial$	$\partial$	$\partial$	$\partial$	$\partial$	<code>\mitpartial</code>	mathematical italic partial differential
U+1D716	$\epsilon$	$\epsilon$	$\epsilon$	$\epsilon$	$\epsilon$	$\epsilon$	<code>\mitepsilon</code>	mathematical italic varepsilon symbol
U+1D717	$\vartheta$	$\vartheta$	$\vartheta$	$\vartheta$	$\vartheta$	$\vartheta$	<code>\mitvartheta</code>	mathematical italic theta symbol
U+1D718	$\kappa$	$\kappa$	$\kappa$	$\kappa$	$\kappa$	$\kappa$	<code>\mitvarkappa</code>	mathematical italic kappa symbol
U+1D719	$\phi$	$\phi$	$\phi$	$\phi$	$\phi$	$\phi$	<code>\mitphi</code>	mathematical italic phi symbol
U+1D71A	$\varrho$	$\varrho$	$\varrho$	$\varrho$	$\varrho$	$\varrho$	<code>\mitvarrho</code>	mathematical italic rho symbol
U+1D71B	$\varpi$	$\varpi$	$\varpi$	$\varpi$	$\varpi$	$\varpi$	<code>\mitvarpi</code>	mathematical italic pi symbol

### 13.1.7 Script, Latin, uppercase

USV	L	X	S	P	D	F	Macro	Description
U+1D49C	$\mathcal{A}$	$\mathcal{A}$	$\mathcal{A}$	$\mathcal{A}$	$\mathcal{A}$	$\mathcal{A}$	<code>\mscrA</code>	mathematical script capital a
U+1D49E	$\mathcal{C}$	$\mathcal{C}$	$\mathcal{C}$	$\mathcal{C}$	$\mathcal{C}$	$\mathcal{C}$	<code>\mscrC</code>	mathematical script capital c
U+1D49F	$\mathcal{D}$	$\mathcal{D}$	$\mathcal{D}$	$\mathcal{D}$	$\mathcal{D}$	$\mathcal{D}$	<code>\mscrD</code>	mathematical script capital d
U+1D4A2	$\mathcal{G}$	$\mathcal{G}$	$\mathcal{G}$	$\mathcal{G}$	$\mathcal{G}$	$\mathcal{G}$	<code>\mscrG</code>	mathematical script capital g
U+1D4A5	$\mathcal{J}$	$\mathcal{J}$	$\mathcal{J}$	$\mathcal{J}$	$\mathcal{J}$	$\mathcal{J}$	<code>\mscrJ</code>	mathematical script capital j

USV	L	X	S	P	D	F	Macro	Description
U+1D4A6	<i>K</i>	<i>℔</i>	<i>℔</i>	<i>℔</i>	<i>℔</i>		<code>\mscrK</code>	mathematical script capital k
U+1D4A9	<i>N</i>	<i>℔</i>	<i>℔</i>	<i>℔</i>	<i>℔</i>		<code>\mscrN</code>	mathematical script capital n
U+1D4AA	<i>O</i>	<i>℔</i>	<i>℔</i>	<i>℔</i>	<i>℔</i>		<code>\mscrO</code>	mathematical script capital o
U+1D4AB	<i>P</i>	<i>℔</i>	<i>℔</i>	<i>℔</i>	<i>℔</i>		<code>\mscrP</code>	mathematical script capital p
U+1D4AC	<i>Q</i>	<i>℔</i>	<i>℔</i>	<i>℔</i>	<i>℔</i>		<code>\mscrQ</code>	mathematical script capital q
U+1D4AE	<i>S</i>	<i>℔</i>	<i>℔</i>	<i>℔</i>	<i>℔</i>		<code>\mscrS</code>	mathematical script capital s
U+1D4AF	<i>T</i>	<i>℔</i>	<i>℔</i>	<i>℔</i>	<i>℔</i>		<code>\mscrT</code>	mathematical script capital t
U+1D4B0	<i>U</i>	<i>℔</i>	<i>℔</i>	<i>℔</i>	<i>℔</i>		<code>\mscrU</code>	mathematical script capital u
U+1D4B1	<i>V</i>	<i>℔</i>	<i>℔</i>	<i>℔</i>	<i>℔</i>		<code>\mscrV</code>	mathematical script capital v
U+1D4B2	<i>W</i>	<i>℔</i>	<i>℔</i>	<i>℔</i>	<i>℔</i>		<code>\mscrW</code>	mathematical script capital w
U+1D4B3	<i>X</i>	<i>℔</i>	<i>℔</i>	<i>℔</i>	<i>℔</i>		<code>\mscrX</code>	mathematical script capital x
U+1D4B4	<i>Y</i>	<i>℔</i>	<i>℔</i>	<i>℔</i>	<i>℔</i>		<code>\mscrY</code>	mathematical script capital y
U+1D4B5	<i>Z</i>	<i>℔</i>	<i>℔</i>	<i>℔</i>	<i>℔</i>		<code>\mscrZ</code>	mathematical script capital z

### 13.1.8 Script, Latin, lowercase

USV	L	X	S	P	D	F	Macro	Description
U+1D4B6		<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>		<code>\mscrb</code>	mathematical script small b
U+1D4B8		<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>		<code>\mscra</code>	mathematical script small c
U+1D4B9		<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>		<code>\mscrf</code>	mathematical script small f
U+1D4BD		<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>		<code>\mscri</code>	mathematical script small i
U+1D4BF		<i>j</i>	<i>j</i>	<i>j</i>	<i>j</i>		<code>\mscrj</code>	mathematical script small j

USV	L	X	S	P	D	F	Macro	Description
U+1D4C0		$\mathfrak{k}$	$\mathfrak{k}$	$\mathfrak{k}$	$\mathfrak{k}$		<code>\mscrk</code>	mathematical script small k
U+1D4C1		$\mathfrak{l}$	$\mathfrak{l}$	$\mathfrak{l}$	$\mathfrak{l}$		<code>\mscrl</code>	mathematical script small l
U+1D4C2		$\mathfrak{m}$	$\mathfrak{m}$	$\mathfrak{m}$	$\mathfrak{m}$		<code>\mscrm</code>	mathematical script small m
U+1D4C3		$\mathfrak{n}$	$\mathfrak{n}$	$\mathfrak{n}$	$\mathfrak{n}$		<code>\mscrn</code>	mathematical script small n
U+1D4C5		$\mathfrak{p}$	$\mathfrak{p}$	$\mathfrak{p}$	$\mathfrak{p}$		<code>\mscrp</code>	mathematical script small p
U+1D4C6		$\mathfrak{q}$	$\mathfrak{q}$	$\mathfrak{q}$	$\mathfrak{q}$		<code>\mscrq</code>	mathematical script small q
U+1D4C7		$\mathfrak{r}$	$\mathfrak{r}$	$\mathfrak{r}$	$\mathfrak{r}$		<code>\mscrr</code>	mathematical script small r
U+1D4C8		$\mathfrak{s}$	$\mathfrak{s}$	$\mathfrak{s}$	$\mathfrak{s}$		<code>\mscrs</code>	mathematical script small s
U+1D4C9		$\mathfrak{t}$	$\mathfrak{t}$	$\mathfrak{t}$	$\mathfrak{t}$		<code>\mscrt</code>	mathematical script small t
U+1D4CA		$\mathfrak{u}$	$\mathfrak{u}$	$\mathfrak{u}$	$\mathfrak{u}$		<code>\mscru</code>	mathematical script small u
U+1D4CB		$\mathfrak{v}$	$\mathfrak{v}$	$\mathfrak{v}$	$\mathfrak{v}$		<code>\mscrv</code>	mathematical script small v
U+1D4CC		$\mathfrak{w}$	$\mathfrak{w}$	$\mathfrak{w}$	$\mathfrak{w}$		<code>\mscrw</code>	mathematical script small w
U+1D4CD		$\mathfrak{x}$	$\mathfrak{x}$	$\mathfrak{x}$	$\mathfrak{x}$		<code>\mscrx</code>	mathematical script small x
U+1D4CE		$\mathfrak{y}$	$\mathfrak{y}$	$\mathfrak{y}$	$\mathfrak{y}$		<code>\mscry</code>	mathematical script small y
U+1D4CF		$\mathfrak{z}$	$\mathfrak{z}$	$\mathfrak{z}$	$\mathfrak{z}$		<code>\mscrz</code>	mathematical script small z

### 13.1.9 Fraktur, Latin, uppercase

USV	L	X	S	P	D	F	Macro	Description
U+1D504		$\mathfrak{A}$	$\mathfrak{A}$	$\mathfrak{A}$	$\mathfrak{A}$		<code>\mfrakA</code>	mathematical fraktur capital a
U+1D505		$\mathfrak{B}$	$\mathfrak{B}$	$\mathfrak{B}$	$\mathfrak{B}$		<code>\mfrakB</code>	mathematical fraktur capital b
U+1D507		$\mathfrak{D}$	$\mathfrak{D}$	$\mathfrak{D}$	$\mathfrak{D}$		<code>\mfrakD</code>	mathematical fraktur capital d
U+1D508		$\mathfrak{E}$	$\mathfrak{E}$	$\mathfrak{E}$	$\mathfrak{E}$		<code>\mfrakE</code>	mathematical fraktur capital e
U+1D509		$\mathfrak{F}$	$\mathfrak{F}$	$\mathfrak{F}$	$\mathfrak{F}$		<code>\mfrakF</code>	mathematical fraktur capital f
U+1D50A		$\mathfrak{G}$	$\mathfrak{G}$	$\mathfrak{G}$	$\mathfrak{G}$		<code>\mfrakG</code>	mathematical fraktur capital g



USV	L	X	S	P	D	F	Macro	Description
U+1D50D	𝔥	𝔗	𝔢	𝔥	𝔥		<code>\mfracJ</code>	mathematical fraktur capital j
U+1D50E	𝔗	𝔗	𝔗	𝔗	𝔗		<code>\mfracK</code>	mathematical fraktur capital k
U+1D50F	𝔗	𝔗	𝔗	𝔗	𝔗		<code>\mfracL</code>	mathematical fraktur capital l
U+1D510	𝔗	𝔗	𝔗	𝔗	𝔗		<code>\mfracM</code>	mathematical fraktur capital m
U+1D511	𝔗	𝔗	𝔗	𝔗	𝔗		<code>\mfracN</code>	mathematical fraktur capital n
U+1D512	𝔗	𝔗	𝔗	𝔗	𝔗		<code>\mfracO</code>	mathematical fraktur capital o
U+1D513	𝔗	𝔗	𝔗	𝔗	𝔗		<code>\mfracP</code>	mathematical fraktur capital p
U+1D514	𝔗	𝔗	𝔗	𝔗	𝔗		<code>\mfracQ</code>	mathematical fraktur capital q
U+1D516	𝔗	𝔗	𝔗	𝔗	𝔗		<code>\mfracS</code>	mathematical fraktur capital s
U+1D517	𝔗	𝔗	𝔗	𝔗	𝔗		<code>\mfracT</code>	mathematical fraktur capital t
U+1D518	𝔗	𝔗	𝔗	𝔗	𝔗		<code>\mfracU</code>	mathematical fraktur capital u
U+1D519	𝔗	𝔗	𝔗	𝔗	𝔗		<code>\mfracV</code>	mathematical fraktur capital v
U+1D51A	𝔗	𝔗	𝔗	𝔗	𝔗		<code>\mfracW</code>	mathematical fraktur capital w
U+1D51B	𝔗	𝔗	𝔗	𝔗	𝔗		<code>\mfracX</code>	mathematical fraktur capital x
U+1D51C	𝔗	𝔗	𝔗	𝔗	𝔗		<code>\mfracY</code>	mathematical fraktur capital y

### 13.1.10 Fraktur, Latin, lowercase

USV	L	X	S	P	D	F	Macro	Description
U+1D51E	𝔞	𝔞	𝔞	𝔞	𝔞		<code>\mfraka</code>	mathematical fraktur small a
U+1D51F	𝔞	𝔞	𝔞	𝔞	𝔞		<code>\mfrakb</code>	mathematical fraktur small b
U+1D520	𝔞	𝔞	𝔞	𝔞	𝔞		<code>\mfracc</code>	mathematical fraktur small c
U+1D521	𝔞	𝔞	𝔞	𝔞	𝔞		<code>\mfracd</code>	mathematical fraktur small d
U+1D522	𝔞	𝔞	𝔞	𝔞	𝔞		<code>\mfrace</code>	mathematical fraktur small e
U+1D523	𝔞	𝔞	𝔞	𝔞	𝔞		<code>\mfracf</code>	mathematical fraktur small f

USV	L	X	S	P	D	F	Macro	Description
U+1D524	g	g	g	g	g		<code>\mfrakg</code>	mathematical fraktur small g
U+1D525	h	h	h	h	h		<code>\mfrakh</code>	mathematical fraktur small h
U+1D526	i	i	i	i	i		<code>\mfraki</code>	mathematical fraktur small i
U+1D527	j	j	j	j	j		<code>\mfrakj</code>	mathematical fraktur small j
U+1D528	k	k	k	k	k		<code>\mfrakk</code>	mathematical fraktur small k
U+1D529	l	l	l	l	l		<code>\mfrakl</code>	mathematical fraktur small l
U+1D52A	m	m	m	m	m		<code>\mfrakm</code>	mathematical fraktur small m
U+1D52B	n	n	n	n	n		<code>\mfrakn</code>	mathematical fraktur small n
U+1D52C	o	o	o	o	o		<code>\mfrako</code>	mathematical fraktur small o
U+1D52D	p	p	p	p	p		<code>\mfrakp</code>	mathematical fraktur small p
U+1D52E	q	q	q	q	q		<code>\mfrakq</code>	mathematical fraktur small q
U+1D52F	r	r	r	r	r		<code>\mfrakr</code>	mathematical fraktur small r
U+1D530	s	s	s	s	s		<code>\mfraks</code>	mathematical fraktur small s
U+1D531	t	t	t	t	t		<code>\mfrakt</code>	mathematical fraktur small t
U+1D532	u	u	u	u	u		<code>\mfraku</code>	mathematical fraktur small u
U+1D533	v	v	v	v	v		<code>\mfrakv</code>	mathematical fraktur small v
U+1D534	w	w	w	w	w		<code>\mfrakw</code>	mathematical fraktur small w
U+1D535	x	x	x	x	x		<code>\mfrakx</code>	mathematical fraktur small x
U+1D536	y	y	y	y	y		<code>\mfraky</code>	mathematical fraktur small y
U+1D537	z	z	z	z	z		<code>\mfrakz</code>	mathematical fraktur small z

### 13.1.11 Blackboard, Latin, uppercase

USV	L	X	S	P	D	F	Macro	Description
U+1D538	A	A	A	A	A	A	<code>\BbbA</code>	mathematical double-struck capital a

usv	L	X	S	P	D	F	Macro	Description
U+1D539	B	B	B	B	B	B	\BbbB	mathematical double-struck capital b
U+1D53B	D	D	D	D	D	D	\BbbD	mathematical double-struck capital d
U+1D53C	E	E	E	E	E	E	\BbbE	mathematical double-struck capital e
U+1D53D	F	F	F	F	F	F	\BbbF	mathematical double-struck capital f
U+1D53E	G	G	G	G	G	G	\BbbG	mathematical double-struck capital g
U+1D540	I	I	I	I	I	I	\BbbI	mathematical double-struck capital i
U+1D541	J	J	J	J	J	J	\BbbJ	mathematical double-struck capital j
U+1D542	K	K	K	K	K	K	\BbbK	mathematical double-struck capital k
U+1D543	L	L	L	L	L	L	\BbbL	mathematical double-struck capital l
U+1D544	M	M	M	M	M	M	\BbbM	mathematical double-struck capital m
U+1D546	O	O	O	O	O	O	\BbbO	mathematical double-struck capital o
U+1D54A	S	S	S	S	S	S	\BbbS	mathematical double-struck capital s
U+1D54B	T	T	T	T	T	T	\BbbT	mathematical double-struck capital t
U+1D54C	U	U	U	U	U	U	\BbbU	mathematical double-struck capital u
U+1D54D	V	V	V	V	V	V	\BbbV	mathematical double-struck capital v
U+1D54E	W	W	W	W	W	W	\BbbW	mathematical double-struck capital w
U+1D54F	X	X	X	X	X	X	\BbbX	mathematical double-struck capital x
U+1D550	Y	Y	Y	Y	Y	Y	\BbbY	mathematical double-struck capital y

### 13.1.12 Blackboard, Latin, lowercase

usv	L	X	S	P	D	F	Macro	Description
U+1D552	a	a	a	a	a	a	\Bbba	mathematical double-struck small a
U+1D553	b	b	b	b	b	b	\Bbbb	mathematical double-struck small b
U+1D554	c	c	c	c	c	c	\Bbbc	mathematical double-struck small c

usv	L	X	S	P	D	F	Macro	Description
U+1D555	d	d	d	d	d	d	\Bbbd	mathematical double-struck small d
U+1D556	e	e	e	e	e	e	\Bbbe	mathematical double-struck small e
U+1D557	f	f	f	f	f	f	\Bbbf	mathematical double-struck small f
U+1D558	g	g	g	g	g	g	\Bbbg	mathematical double-struck small g
U+1D559	h	h	h	h	h	h	\Bbbh	mathematical double-struck small h
U+1D55A	i	i	i	i	i	i	\Bbbi	mathematical double-struck small i
U+1D55B	j	j	j	j	j	j	\Bbbj	mathematical double-struck small j
U+1D55C	k	k	k	k	k	k	\Bbbk <sup>(a)</sup>	mathematical double-struck small k
U+1D55D	l	l	l	l	l	l	\Bbb l	mathematical double-struck small l
U+1D55E	m	m	m	m	m	m	\Bbbm	mathematical double-struck small m
U+1D55F	n	n	n	n	n	n	\Bbbn	mathematical double-struck small n
U+1D560	o	o	o	o	o	o	\Bbbo	mathematical double-struck small o
U+1D561	p	p	p	p	p	p	\Bbbp	mathematical double-struck small p
U+1D562	q	q	q	q	q	q	\Bbbq	mathematical double-struck small q
U+1D563	r	r	r	r	r	r	\Bbb r	mathematical double-struck small r
U+1D564	s	s	s	s	s	s	\Bbbs	mathematical double-struck small s
U+1D565	t	t	t	t	t	t	\Bbbt	mathematical double-struck small t
U+1D566	u	u	u	u	u	u	\Bbbu	mathematical double-struck small u
U+1D567	v	v	v	v	v	v	\Bbbv	mathematical double-struck small v
U+1D568	w	w	w	w	w	w	\Bbbw	mathematical double-struck small w
U+1D569	x	x	x	x	x	x	\Bbbx	mathematical double-struck small x
U+1D56A	y	y	y	y	y	y	\Bbby	mathematical double-struck small y
U+1D56B	z	z	z	z	z	z	\Bbbz	mathematical double-struck small z

### 13.1.13 Sans serif, Latin, uppercase

USV	L	X	S	P	D	F	Macro	Description
U+1D5A0	A	A	A	A	A		<code>\msansA</code>	mathematical sans-serif capital a
U+1D5A1	B	B	B	B	B		<code>\msansB</code>	mathematical sans-serif capital b
U+1D5A2	C	C	C	C	C		<code>\msansC</code>	mathematical sans-serif capital c
U+1D5A3	D	D	D	D	D		<code>\msansD</code>	mathematical sans-serif capital d
U+1D5A4	E	E	E	E	E		<code>\msansE</code>	mathematical sans-serif capital e
U+1D5A5	F	F	F	F	F		<code>\msansF</code>	mathematical sans-serif capital f
U+1D5A6	G	G	G	G	G		<code>\msansG</code>	mathematical sans-serif capital g
U+1D5A7	H	H	H	H	H		<code>\msansH</code>	mathematical sans-serif capital h
U+1D5A8	I	I	I	I	I		<code>\msansI</code>	mathematical sans-serif capital i
U+1D5A9	J	J	J	J	J		<code>\msansJ</code>	mathematical sans-serif capital j
U+1D5AA	K	K	K	K	K		<code>\msansK</code>	mathematical sans-serif capital k
U+1D5AB	L	L	L	L	L		<code>\msansL</code>	mathematical sans-serif capital l
U+1D5AC	M	M	M	M	M		<code>\msansM</code>	mathematical sans-serif capital m
U+1D5AD	N	N	N	N	N		<code>\msansN</code>	mathematical sans-serif capital n
U+1D5AE	O	O	O	O	O		<code>\msansO</code>	mathematical sans-serif capital o
U+1D5AF	P	P	P	P	P		<code>\msansP</code>	mathematical sans-serif capital p
U+1D5B0	Q	Q	Q	Q	Q		<code>\msansQ</code>	mathematical sans-serif capital q
U+1D5B1	R	R	R	R	R		<code>\msansR</code>	mathematical sans-serif capital r
U+1D5B2	S	S	S	S	S		<code>\msansS</code>	mathematical sans-serif capital s
U+1D5B3	T	T	T	T	T		<code>\msansT</code>	mathematical sans-serif capital t
U+1D5B4	U	U	U	U	U		<code>\msansU</code>	mathematical sans-serif capital u
U+1D5B5	V	V	V	V	V		<code>\msansV</code>	mathematical sans-serif capital v
U+1D5B6	W	W	W	W	W		<code>\msansW</code>	mathematical sans-serif capital w

USV	L	X	S	P	D	F	Macro	Description
U+1D5B7	X	X	X	X	X		<code>\msansX</code>	mathematical sans-serif capital x
U+1D5B8	Y	Y	Y	Y	Y		<code>\msansY</code>	mathematical sans-serif capital y
U+1D5B9	Z	Z	Z	Z	Z		<code>\msansZ</code>	mathematical sans-serif capital z

### 13.1.14 Sans serif, Latin, lowercase

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

USV	L	X	S	P	D	F	Macro	Description
U+1D5CC	s	s	s	s	s		<code>\msanss</code>	mathematical sans-serif small s
U+1D5CD	t	t	t	t	t		<code>\msanst</code>	mathematical sans-serif small t
U+1D5CE	u	u	u	u	u		<code>\msansu</code>	mathematical sans-serif small u
U+1D5CF	v	v	v	v	v		<code>\msansv</code>	mathematical sans-serif small v
U+1D5D0	w	w	w	w	w		<code>\msansw</code>	mathematical sans-serif small w
U+1D5D1	x	x	x	x	x		<code>\msansx</code>	mathematical sans-serif small x
U+1D5D2	y	y	y	y	y		<code>\msansy</code>	mathematical sans-serif small y
U+1D5D3	z	z	z	z	z		<code>\msansz</code>	mathematical sans-serif small z

### 13.1.15 Italic sans serif, Latin, uppercase

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

USV	L	X	S	P	D	F	Macro	Description
U+1D615	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>		<code>\mitsansN</code>	mathematical sans-serif italic capital n
U+1D616	<i>O</i>	<i>O</i>	<i>O</i>	<i>O</i>	<i>O</i>		<code>\mitsansO</code>	mathematical sans-serif italic capital o
U+1D617	<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>		<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>		<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>		<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>		<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>		<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>		<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>		<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>		<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>		<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>		<code>\mitsansZ</code>	mathematical sans-serif italic capital z

### 13.1.16 Italic sans serif, Latin, lowercase

USV	L	X	S	P	D	F	Macro	Description
U+1D622	<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>		<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>		<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>		<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>		<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>		<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>		<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>		<code>\mitsansh</code>	mathematical sans-serif italic small h



USV	L	X	S	P	D	F	Macro	Description
U+1D62A	<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>		<code>\mitsansj</code>	mathematical sans-serif italic small j
U+1D62C	<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>		<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>		<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>		<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>		<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>		<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>		<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>		<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>		<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>		<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>		<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>		<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>		<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>		<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>		<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>		<code>\mitsansz</code>	mathematical sans-serif italic small z

### 13.1.17 Typewriter, Latin, uppercase

USV	L	X	S	P	D	F	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

USV	L	X	S	P	D	F	Macro	Description
U+1D673	D	D	D	D	D	D	\mttD	mathematical monospace capital d
U+1D674	E	E	E	E	E	E	\mttE	mathematical monospace capital e
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	L	X	S	P	D	F	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

USV	L	X	S	P	D	F	Macro	Description
U+1D6A1	x	x	x	x	x	x	\mttx	mathematical monospace small x
U+1D6A2	y	y	y	y	y	y	\mtty	mathematical monospace small y
U+1D6A3	z	z	z	z	z	z	\mttz	mathematical monospace small z

## 13.2 Bold

### 13.2.1 Bold, Latin, uppercase

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

USV	L	X	S	P	D	F	Macro	Description
U+1D411	<b>R</b>	<b>R</b>	<b>R</b>	<b>R</b>	<b>R</b>	<b>R</b>	<code>\mbfR</code>	mathematical bold capital r
U+1D412	<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>	<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>	<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>	<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>	<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>	<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>	<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>	<code>\mbfZ</code>	mathematical bold capital z

### 13.2.2 Bold, Latin, lowercase

USV	L	X	S	P	D	F	Macro	Description
U+1D41A	<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>	<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>	<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>	<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>	<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>	<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>	<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>	<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>	<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>	<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>	<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>	<code>\mbfl</code>	mathematical bold small l

USV	L	X	S	P	D	F	Macro	Description
U+1D426	<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
U+1D427	<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>	<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>	<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>	<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>	<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>	<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>	<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>	<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>	<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>	<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>	<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>	<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>	<code>\mbfz</code>	mathematical bold small z

### 13.2.3 Bold Greek, uppercase

USV	L	X	S	P	D	F	Macro	Description
U+1D6A8	<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>	<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>	<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>	<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>	<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>	<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>	<code>\mbfEta</code>	mathematical bold capital eta

USV	L	X	S	P	D	F	Macro	Description
U+1D6AF	Θ	Θ	Θ	Θ	Θ	Θ	<code>\mbfTheta</code>	mathematical bold capital theta
U+1D6B0	Ι	Ι	Ι	Ι	Ι	Ι	<code>\mbfIota</code>	mathematical bold capital iota
U+1D6B1	Κ	Κ	Κ	Κ	Κ	Κ	<code>\mbfKappa</code>	mathematical bold capital kappa
U+1D6B2	Λ	Λ	Λ	Λ	Λ	Λ	<code>\mbfLambda</code>	mathematical bold capital lambda
U+1D6B3	Μ	Μ	Μ	Μ	Μ	Μ	<code>\mbfMu</code>	mathematical bold capital mu
U+1D6B4	Ν	Ν	Ν	Ν	Ν	Ν	<code>\mbfNu</code>	mathematical bold capital nu
U+1D6B5	Ξ	Ξ	Ξ	Ξ	Ξ	Ξ	<code>\mbfXi</code>	mathematical bold capital xi
U+1D6B6	Ο	Ο	Ο	Ο	Ο	Ο	<code>\mbfOmicron</code>	mathematical bold capital omicron
U+1D6B7	Π	Π	Π	Π	Π	Π	<code>\mbfPi</code>	mathematical bold capital pi
U+1D6B8	Ρ	Ρ	Ρ	Ρ	Ρ	Ρ	<code>\mbfRho</code>	mathematical bold capital rho
U+1D6B9	Θ	Θ	Θ	Θ	Θ	Θ	<code>\mbfvarTheta</code>	mathematical bold capital theta symbol
U+1D6BA	Σ	Σ	Σ	Σ	Σ	Σ	<code>\mbfSigma</code>	mathematical bold capital sigma
U+1D6BB	Τ	Τ	Τ	Τ	Τ	Τ	<code>\mbfTau</code>	mathematical bold capital tau
U+1D6BC	Υ	Υ	Υ	Υ	Υ	Υ	<code>\mbfUpsilon</code>	mathematical bold capital upsilon
U+1D6BD	Φ	Φ	Φ	Φ	Φ	Φ	<code>\mbfPhi</code>	mathematical bold capital phi
U+1D6BE	Χ	Χ	Χ	Χ	Χ	Χ	<code>\mbfChi</code>	mathematical bold capital chi
U+1D6BF	Ψ	Ψ	Ψ	Ψ	Ψ	Ψ	<code>\mbfPsi</code>	mathematical bold capital psi
U+1D6C0	Ω	Ω	Ω	Ω	Ω	Ω	<code>\mbfOmega</code>	mathematical bold capital omega

### 13.2.4 Bold Greek, lowercase

USV	L	X	S	P	D	F	Macro	Description
U+1D6C2	α	α	α	α	α	α	<code>\mbfalphabet</code>	mathematical bold small alpha
U+1D6C3	β	β	β	β	β	β	<code>\mbfbeta</code>	mathematical bold small beta
U+1D6C4	γ	γ	γ	γ	γ	γ	<code>\mbfgamma</code>	mathematical bold small gamma

USV	L	X	S	P	D	F	Macro	Description
U+1D6C5	δ	δ	δ	δ	δ	δ	<code>\mbfdelta</code>	mathematical bold small delta
U+1D6C6	ε	ε	ε	ε	ε	ε	<code>\mbfvarepsilon</code>	mathematical bold small varepsilon
U+1D6C7	ζ	ζ	ζ	ζ	ζ	ζ	<code>\mbfzeta</code>	mathematical bold small zeta
U+1D6C8	η	η	η	η	η	η	<code>\mbfeta</code>	mathematical bold small eta
U+1D6C9	θ	θ	θ	θ	θ	θ	<code>\mbftheta</code>	mathematical bold small theta
U+1D6CA	ι	ι	ι	ι	ι	ι	<code>\mbfiota</code>	mathematical bold small iota
U+1D6CB	κ	κ	κ	κ	κ	κ	<code>\mbfkappa</code>	mathematical bold small kappa
U+1D6CC	λ	λ	λ	λ	λ	λ	<code>\mbflambda</code>	mathematical bold small lambda
U+1D6CD	μ	μ	μ	μ	μ	μ	<code>\mbfmu</code>	mathematical bold small mu
U+1D6CE	ν	ν	ν	ν	ν	ν	<code>\mbfnu</code>	mathematical bold small nu
U+1D6CF	ξ	ξ	ξ	ξ	ξ	ξ	<code>\mbfxi</code>	mathematical bold small xi
U+1D6D0	ο	ο	ο	ο	ο	ο	<code>\mbfomicron</code>	mathematical bold small omicron
U+1D6D1	π	π	π	π	π	π	<code>\mbfpi</code>	mathematical bold small pi
U+1D6D2	ρ	ρ	ρ	ρ	ρ	ρ	<code>\mbfrho</code>	mathematical bold small rho
U+1D6D3	ς	ς	ς	ς	ς	ς	<code>\mbfvarsigma</code>	mathematical bold small final sigma
U+1D6D4	σ	σ	σ	σ	σ	σ	<code>\mbfsigma</code>	mathematical bold small sigma
U+1D6D5	τ	τ	τ	τ	τ	τ	<code>\mbftau</code>	mathematical bold small tau
U+1D6D6	υ	υ	υ	υ	υ	υ	<code>\mbfupsilon</code>	mathematical bold small upsilon
U+1D6D7	φ	φ	φ	φ	φ	φ	<code>\mbfvarphi</code>	mathematical bold small phi
U+1D6D8	χ	χ	χ	χ	χ	χ	<code>\mbfchi</code>	mathematical bold small chi
U+1D6D9	ψ	ψ	ψ	ψ	ψ	ψ	<code>\mbfpsi</code>	mathematical bold small psi
U+1D6DA	ω	ω	ω	ω	ω	ω	<code>\mbfomega</code>	mathematical bold small omega
U+1D6DB	∂	∂	∂	∂	∂	∂	<code>\mbfpartial</code>	mathematical bold partial differential
U+1D6DC	ε	ε	ε	ε	ε	ε	<code>\mbfepsilon</code>	mathematical bold varepsilon symbol



USV	L	X	S	P	D	F	Macro	Description
U+1D6DD	<b>ϑ</b>	<b>ϑ</b>	<b>ϑ</b>	<b>ϑ</b>	<b>ϑ</b>	<b>ϑ</b>	<code>\mbfvartheta</code>	mathematical bold theta symbol
U+1D6DE	<b>κ</b>	<b>κ</b>	<b>κ</b>	<b>κ</b>	<b>κ</b>	<b>κ</b>	<code>\mbfvarkappa</code>	mathematical bold kappa symbol
U+1D6DF	<b>φ</b>	<b>φ</b>	<b>φ</b>	<b>φ</b>	<b>φ</b>	<b>φ</b>	<code>\mbfphi</code>	mathematical bold phi symbol
U+1D6E0	<b>ρ</b>	<b>ρ</b>	<b>ρ</b>	<b>ρ</b>	<b>ρ</b>	<b>ρ</b>	<code>\mbfvarrho</code>	mathematical bold rho symbol
U+1D6E1	<b>π</b>	<b>π</b>	<b>π</b>	<b>π</b>	<b>π</b>	<b>π</b>	<code>\mbfvarpi</code>	mathematical bold pi symbol

### 13.2.5 Bold italic, Latin, uppercase

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

USV	L	X	S	P	D	F	Macro	Description
U+1D478	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>	<code>\mbfitQ</code>	mathematical bold italic capital q
U+1D479	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<code>\mbfitR</code>	mathematical bold italic capital r
U+1D47A	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<code>\mbfitS</code>	mathematical bold italic capital s
U+1D47B	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>	<code>\mbfitT</code>	mathematical bold italic capital t
U+1D47C	<i>U</i>	<i>U</i>	<i>U</i>	<i>U</i>	<i>U</i>	<i>U</i>	<code>\mbfitU</code>	mathematical bold italic capital u
U+1D47D	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	<code>\mbfitV</code>	mathematical bold italic capital v
U+1D47E	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<code>\mbfitW</code>	mathematical bold italic capital w
U+1D47F	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<code>\mbfitX</code>	mathematical bold italic capital x
U+1D480	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<code>\mbfitY</code>	mathematical bold italic capital y
U+1D481	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	<code>\mbfitZ</code>	mathematical bold italic capital z

### 13.2.6 Bold italic, Latin, lowercase

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

USV	L	X	S	P	D	F	Macro	Description
U+1D48D	<i>l</i>	<i>l</i>	<i>l</i>	<i>l</i>	<i>l</i>	<i>l</i>	<code>\mbfitl</code>	mathematical bold italic small l
U+1D48E	<i>m</i>	<i>m</i>	<i>m</i>	<i>m</i>	<i>m</i>	<i>m</i>	<code>\mbfitm</code>	mathematical bold italic small m
U+1D48F	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<code>\mbfitn</code>	mathematical bold italic small n
U+1D490	<i>o</i>	<i>o</i>	<i>o</i>	<i>o</i>	<i>o</i>	<i>o</i>	<code>\mbfito</code>	mathematical bold italic small o
U+1D491	<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>	<code>\mbfitp</code>	mathematical bold italic small p
U+1D492	<i>q</i>	<i>q</i>	<i>q</i>	<i>q</i>	<i>q</i>	<i>q</i>	<code>\mbfitq</code>	mathematical bold italic small q
U+1D493	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<code>\mbfitr</code>	mathematical bold italic small r
U+1D494	<i>s</i>	<i>s</i>	<i>s</i>	<i>s</i>	<i>s</i>	<i>s</i>	<code>\mbfits</code>	mathematical bold italic small s
U+1D495	<i>t</i>	<i>t</i>	<i>t</i>	<i>t</i>	<i>t</i>	<i>t</i>	<code>\mbfitt</code>	mathematical bold italic small t
U+1D496	<i>u</i>	<i>u</i>	<i>u</i>	<i>u</i>	<i>u</i>	<i>u</i>	<code>\mbfitu</code>	mathematical bold italic small u
U+1D497	<i>v</i>	<i>v</i>	<i>v</i>	<i>v</i>	<i>v</i>	<i>v</i>	<code>\mbfitv</code>	mathematical bold italic small v
U+1D498	<i>w</i>	<i>w</i>	<i>w</i>	<i>w</i>	<i>w</i>	<i>w</i>	<code>\mbfitw</code>	mathematical bold italic small w
U+1D499	<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>	<code>\mbfitx</code>	mathematical bold italic small x
U+1D49A	<i>y</i>	<i>y</i>	<i>y</i>	<i>y</i>	<i>y</i>	<i>y</i>	<code>\mbfity</code>	mathematical bold italic small y
U+1D49B	<i>z</i>	<i>z</i>	<i>z</i>	<i>z</i>	<i>z</i>	<i>z</i>	<code>\mbfitz</code>	mathematical bold italic small z

### 13.2.7 Bold italic Greek, uppercase

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

USV	L	X	S	P	D	F	Macro	Description
U+1D722	<i>H</i>	<i>H</i>	<i>H</i>	<i>H</i>	<i>H</i>	<i>H</i>	<code>\mbfitEta</code>	mathematical bold italic capital eta
U+1D723	<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>	<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>	<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>	<code>\mbfitLambda</code>	mathematical bold italic capital lambda
U+1D727	<i>M</i>	<i>M</i>	<i>M</i>	<i>M</i>	<i>M</i>	<i>M</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>	<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>	<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>	<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>	<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>	<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>	<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>	<code>\mbfitSigma</code>	mathematical bold italic capital sigma
U+1D72F	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</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>	<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>	<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>	<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>	<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>	<code>\mbfitOmega</code>	mathematical bold italic capital omega

### 13.2.8 Bold italic Greek, lowercase

USV	L	X	S	P	D	F	Macro	Description
U+1D736	<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>	<code>\mbfitbeta</code>	mathematical bold italic small beta

USV	L	X	S	P	D	F	Macro	Description
U+1D738	$\gamma$	$\gamma$	$\gamma$	$\gamma$	$\boldsymbol{\gamma}$	$\boldsymbol{\gamma}$	<code>\mbfitgamma</code>	mathematical bold italic small gamma
U+1D739	$\delta$	$\delta$	$\delta$	$\delta$	$\boldsymbol{\delta}$	$\boldsymbol{\delta}$	<code>\mbfitdelta</code>	mathematical bold italic small delta
U+1D73A	$\varepsilon$	$\varepsilon$	$\varepsilon$	$\varepsilon$	$\boldsymbol{\varepsilon}$	$\boldsymbol{\varepsilon}$	<code>\mbfitvarepsilon</code>	mathematical bold italic small varepsilon
U+1D73B	$\zeta$	$\zeta$	$\zeta$	$\zeta$	$\boldsymbol{\zeta}$	$\boldsymbol{\zeta}$	<code>\mbfitzeta</code>	mathematical bold italic small zeta
U+1D73C	$\eta$	$\eta$	$\eta$	$\eta$	$\boldsymbol{\eta}$	$\boldsymbol{\eta}$	<code>\mbfiteta</code>	mathematical bold italic small eta
U+1D73D	$\theta$	$\theta$	$\theta$	$\theta$	$\boldsymbol{\theta}$	$\boldsymbol{\theta}$	<code>\mbfittheta</code>	mathematical bold italic small theta
U+1D73E	$\iota$	$\iota$	$\iota$	$\iota$	$\boldsymbol{\iota}$	$\boldsymbol{\iota}$	<code>\mbfitiota</code>	mathematical bold italic small iota
U+1D73F	$\kappa$	$\kappa$	$\kappa$	$\kappa$	$\boldsymbol{\kappa}$	$\boldsymbol{\kappa}$	<code>\mbfitkappa</code>	mathematical bold italic small kappa
U+1D740	$\lambda$	$\lambda$	$\lambda$	$\lambda$	$\boldsymbol{\lambda}$	$\boldsymbol{\lambda}$	<code>\mbfitlambda</code>	mathematical bold italic small lambda
U+1D741	$\mu$	$\mu$	$\mu$	$\mu$	$\boldsymbol{\mu}$	$\boldsymbol{\mu}$	<code>\mbfitmu</code>	mathematical bold italic small mu
U+1D742	$\nu$	$\nu$	$\nu$	$\nu$	$\boldsymbol{\nu}$	$\boldsymbol{\nu}$	<code>\mbfitnu</code>	mathematical bold italic small nu
U+1D743	$\xi$	$\xi$	$\xi$	$\xi$	$\boldsymbol{\xi}$	$\boldsymbol{\xi}$	<code>\mbfitxi</code>	mathematical bold italic small xi
U+1D744	$\omicron$	$\omicron$	$\omicron$	$\omicron$	$\boldsymbol{\omicron}$	$\boldsymbol{\omicron}$	<code>\mbfitomicron</code>	mathematical bold italic small omicron
U+1D745	$\pi$	$\pi$	$\pi$	$\pi$	$\boldsymbol{\pi}$	$\boldsymbol{\pi}$	<code>\mbfitpi</code>	mathematical bold italic small pi
U+1D746	$\rho$	$\rho$	$\rho$	$\rho$	$\boldsymbol{\rho}$	$\boldsymbol{\rho}$	<code>\mbfitrho</code>	mathematical bold italic small rho
U+1D747	$\varsigma$	$\varsigma$	$\varsigma$	$\varsigma$	$\boldsymbol{\varsigma}$	$\boldsymbol{\varsigma}$	<code>\mbfitvarsigma</code>	mathematical bold italic small final sigma
U+1D748	$\sigma$	$\sigma$	$\sigma$	$\sigma$	$\boldsymbol{\sigma}$	$\boldsymbol{\sigma}$	<code>\mbfitsigma</code>	mathematical bold italic small sigma
U+1D749	$\tau$	$\tau$	$\tau$	$\tau$	$\boldsymbol{\tau}$	$\boldsymbol{\tau}$	<code>\mbfittau</code>	mathematical bold italic small tau
U+1D74A	$\upsilon$	$\upsilon$	$\upsilon$	$\upsilon$	$\boldsymbol{\upsilon}$	$\boldsymbol{\upsilon}$	<code>\mbfitupsilon</code>	mathematical bold italic small upsilon
U+1D74B	$\varphi$	$\varphi$	$\varphi$	$\varphi$	$\boldsymbol{\varphi}$	$\boldsymbol{\varphi}$	<code>\mbfitvarphi</code>	mathematical bold italic small phi
U+1D74C	$\chi$	$\chi$	$\chi$	$\chi$	$\boldsymbol{\chi}$	$\boldsymbol{\chi}$	<code>\mbfitchi</code>	mathematical bold italic small chi
U+1D74D	$\psi$	$\psi$	$\psi$	$\psi$	$\boldsymbol{\psi}$	$\boldsymbol{\psi}$	<code>\mbfitpsi</code>	mathematical bold italic small psi
U+1D74E	$\omega$	$\omega$	$\omega$	$\omega$	$\boldsymbol{\omega}$	$\boldsymbol{\omega}$	<code>\mbfitomega</code>	mathematical bold italic small omega
U+1D74F	$\partial$	$\partial$	$\partial$	$\partial$	$\boldsymbol{\partial}$	$\boldsymbol{\partial}$	<code>\mbfitpartial</code>	mathematical bold italic partial differential

USV	L	X	S	P	D	F	Macro	Description
U+1D750	€	€	€	€	€	€	\mbfitepsilon	mathematical bold italic varepsilon symbol
U+1D751	ϑ	ϑ	ϑ	ϑ	ϑ	ϑ	\mbfitvartheta	mathematical bold italic theta symbol
U+1D752	κ	κ	κ	κ	κ	κ	\mbfitvarkappa	mathematical bold italic kappa symbol
U+1D753	φ	φ	φ	φ	φ	φ	\mbfitphi	mathematical bold italic phi symbol
U+1D754	ρ	ρ	ρ	ρ	ρ	ρ	\mbfitvarrho	mathematical bold italic rho symbol
U+1D755	ω	ω	ω	ω	ω	ω	\mbfitvarpi	mathematical bold italic pi symbol

### 13.2.9 Bold script, Latin, uppercase

USV	L	X	S	P	D	F	Macro	Description
U+1D4D0	<i>A</i>	<i>A</i>	<i>A</i>	<i>A</i>	<i>A</i>	<i>A</i>	\mbfscrA	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>	\mbfscrB	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>	\mbfscrC	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>	\mbfscrD	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>	\mbfscrE	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>	\mbfscrF	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>	\mbfscrG	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>	\mbfscrH	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>	\mbfscrI	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>	\mbfscrJ	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>	\mbfscrK	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>	\mbfscrL	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>	\mbfscrM	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>	\mbfscrN	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>	\mbfscrO	mathematical bold script capital o

USV	L	X	S	P	D	F	Macro	Description
U+1D4DF	<i><b>P</b></i>	<i><b>℘</b></i>	<i><b>ℙ</b></i>	<i><b>ℱ</b></i>	<i><b>Ⅎ</b></i>		<code>\mbfscrP</code>	mathematical bold script capital p
U+1D4E0	<i><b>Q</b></i>	<i><b>ℚ</b></i>	<i><b>ℙ</b></i>	<i><b>ℚ</b></i>	<i><b>ℚ</b></i>		<code>\mbfscrQ</code>	mathematical bold script capital q
U+1D4E1	<i><b>R</b></i>	<i><b>℞</b></i>	<i><b>℞</b></i>	<i><b>℞</b></i>	<i><b>℞</b></i>		<code>\mbfscrR</code>	mathematical bold script capital r
U+1D4E2	<i><b>S</b></i>	<i><b>℟</b></i>	<i><b>℟</b></i>	<i><b>℟</b></i>	<i><b>℟</b></i>		<code>\mbfscrS</code>	mathematical bold script capital s
U+1D4E3	<i><b>T</b></i>	<i><b>℠</b></i>	<i><b>℠</b></i>	<i><b>℠</b></i>	<i><b>℠</b></i>		<code>\mbfscrT</code>	mathematical bold script capital t
U+1D4E4	<i><b>U</b></i>	<i><b>℡</b></i>	<i><b>℡</b></i>	<i><b>℡</b></i>	<i><b>℡</b></i>		<code>\mbfscrU</code>	mathematical bold script capital u
U+1D4E5	<i><b>V</b></i>	<i><b>™</b></i>	<i><b>™</b></i>	<i><b>™</b></i>	<i><b>™</b></i>		<code>\mbfscrV</code>	mathematical bold script capital v
U+1D4E6	<i><b>W</b></i>	<i><b>℣</b></i>	<i><b>℣</b></i>	<i><b>℣</b></i>	<i><b>℣</b></i>		<code>\mbfscrW</code>	mathematical bold script capital w
U+1D4E7	<i><b>X</b></i>	<i><b>ℤ</b></i>	<i><b>ℤ</b></i>	<i><b>ℤ</b></i>	<i><b>ℤ</b></i>		<code>\mbfscrX</code>	mathematical bold script capital x
U+1D4E8	<i><b>Y</b></i>	<i><b>℞</b></i>	<i><b>℞</b></i>	<i><b>℞</b></i>	<i><b>℞</b></i>		<code>\mbfscrY</code>	mathematical bold script capital y
U+1D4E9	<i><b>Z</b></i>	<i><b>℟</b></i>	<i><b>℟</b></i>	<i><b>℟</b></i>	<i><b>℟</b></i>		<code>\mbfscrZ</code>	mathematical bold script capital z

### 13.2.10 Bold script, Latin, lowercase

USV	L	X	S	P	D	F	Macro	Description
U+1D4EA		<i><b>a</b></i>	<i><b>ɑ</b></i>	<i><b>a</b></i>	<i><b>a</b></i>		<code>\mbfscra</code>	mathematical bold script small a
U+1D4EB		<i><b>b</b></i>	<i><b>β</b></i>	<i><b>b</b></i>	<i><b>b</b></i>		<code>\mbfscrb</code>	mathematical bold script small b
U+1D4EC		<i><b>c</b></i>	<i><b>ϰ</b></i>	<i><b>c</b></i>	<i><b>c</b></i>		<code>\mbfscrc</code>	mathematical bold script small c
U+1D4ED		<i><b>d</b></i>	<i><b>ɖ</b></i>	<i><b>d</b></i>	<i><b>d</b></i>		<code>\mbfscrd</code>	mathematical bold script small d
U+1D4EE		<i><b>e</b></i>	<i><b>ɛ</b></i>	<i><b>e</b></i>	<i><b>e</b></i>		<code>\mbfscre</code>	mathematical bold script small e
U+1D4EF		<i><b>f</b></i>	<i><b>ƒ</b></i>	<i><b>f</b></i>	<i><b>f</b></i>		<code>\mbfscrf</code>	mathematical bold script small f
U+1D4F0		<i><b>g</b></i>	<i><b>ɡ</b></i>	<i><b>g</b></i>	<i><b>g</b></i>		<code>\mbfscrg</code>	mathematical bold script small g
U+1D4F1		<i><b>h</b></i>	<i><b>ɦ</b></i>	<i><b>h</b></i>	<i><b>h</b></i>		<code>\mbfscrh</code>	mathematical bold script small h
U+1D4F2		<i><b>i</b></i>	<i><b>ɨ</b></i>	<i><b>i</b></i>	<i><b>i</b></i>		<code>\mbfscri</code>	mathematical bold script small i
U+1D4F3		<i><b>j</b></i>	<i><b>ɰ</b></i>	<i><b>j</b></i>	<i><b>j</b></i>		<code>\mbfscrj</code>	mathematical bold script small j

USV	L	X	S	P	D	F	Macro	Description
U+1D4F4		<i>k</i>	<i>k</i>	<i>k</i>	<i>k</i>		<code>\mbfscrk</code>	mathematical bold script small k
U+1D4F5		<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>		<code>\mbfscrm</code>	mathematical bold script small m
U+1D4F7		<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>		<code>\mbfscro</code>	mathematical bold script small o
U+1D4F9		<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>		<code>\mbfscrq</code>	mathematical bold script small q
U+1D4FB		<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>		<code>\mbfscrs</code>	mathematical bold script small s
U+1D4FD		<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>		<code>\mbfscru</code>	mathematical bold script small u
U+1D4FF		<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>		<code>\mbfscrw</code>	mathematical bold script small w
U+1D501		<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>		<code>\mbfscry</code>	mathematical bold script small y
U+1D503		<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	L	X	S	P	D	F	Macro	Description
U+1D56C	<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>		<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>		<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>		<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>		<code>\mbffrakE</code>	mathematical bold fraktur capital e



USV	L	X	S	P	D	F	Macro	Description
U+1D571							<code>\mbffrakF</code>	mathematical bold fraktur capital f
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	L	X	S	P	D	F	Macro	Description
U+1D586	<b>ɑ</b>	<b>ⱱ</b>	<b>Ɱ</b>	<b>Ⱳ</b>	<b>ⱳ</b>		<code>\mbffraka</code>	mathematical bold fraktur small a
U+1D587	<b>Ɀ</b>	<b>ⱻ</b>	<b>ⱼ</b>	<b>ⱽ</b>	<b>Ȿ</b>		<code>\mbffrakb</code>	mathematical bold fraktur small b
U+1D588	<b>Ɀ</b>	<b>ⱻ</b>	<b>ⱼ</b>	<b>ⱽ</b>	<b>Ȿ</b>		<code>\mbffrac</code>	mathematical bold fraktur small c
U+1D589	<b>Ɀ</b>	<b>ⱻ</b>	<b>ⱼ</b>	<b>ⱽ</b>	<b>Ȿ</b>		<code>\mbffrakd</code>	mathematical bold fraktur small d
U+1D58A	<b>Ɀ</b>	<b>ⱻ</b>	<b>ⱼ</b>	<b>ⱽ</b>	<b>Ȿ</b>		<code>\mbffrake</code>	mathematical bold fraktur small e
U+1D58B	<b>Ɀ</b>	<b>ⱻ</b>	<b>ⱼ</b>	<b>ⱽ</b>	<b>Ȿ</b>		<code>\mbffrakf</code>	mathematical bold fraktur small f
U+1D58C	<b>Ɀ</b>	<b>ⱻ</b>	<b>ⱼ</b>	<b>ⱽ</b>	<b>Ȿ</b>		<code>\mbffrag</code>	mathematical bold fraktur small g
U+1D58D	<b>Ɀ</b>	<b>ⱻ</b>	<b>ⱼ</b>	<b>ⱽ</b>	<b>Ȿ</b>		<code>\mbffrakh</code>	mathematical bold fraktur small h
U+1D58E	<b>Ɀ</b>	<b>ⱻ</b>	<b>ⱼ</b>	<b>ⱽ</b>	<b>Ȿ</b>		<code>\mbffraki</code>	mathematical bold fraktur small i
U+1D58F	<b>Ɀ</b>	<b>ⱻ</b>	<b>ⱼ</b>	<b>ⱽ</b>	<b>Ȿ</b>		<code>\mbffrakj</code>	mathematical bold fraktur small j
U+1D590	<b>Ɀ</b>	<b>ⱻ</b>	<b>ⱼ</b>	<b>ⱽ</b>	<b>Ȿ</b>		<code>\mbffrakk</code>	mathematical bold fraktur small k
U+1D591	<b>Ɀ</b>	<b>ⱻ</b>	<b>ⱼ</b>	<b>ⱽ</b>	<b>Ȿ</b>		<code>\mbffrakl</code>	mathematical bold fraktur small l
U+1D592	<b>Ɀ</b>	<b>ⱻ</b>	<b>ⱼ</b>	<b>ⱽ</b>	<b>Ȿ</b>		<code>\mbffrakm</code>	mathematical bold fraktur small m
U+1D593	<b>Ɀ</b>	<b>ⱻ</b>	<b>ⱼ</b>	<b>ⱽ</b>	<b>Ȿ</b>		<code>\mbffrakn</code>	mathematical bold fraktur small n
U+1D594	<b>Ɀ</b>	<b>ⱻ</b>	<b>ⱼ</b>	<b>ⱽ</b>	<b>Ȿ</b>		<code>\mbffrako</code>	mathematical bold fraktur small o
U+1D595	<b>Ɀ</b>	<b>ⱻ</b>	<b>ⱼ</b>	<b>ⱽ</b>	<b>Ȿ</b>		<code>\mbffrakp</code>	mathematical bold fraktur small p
U+1D596	<b>Ɀ</b>	<b>ⱻ</b>	<b>ⱼ</b>	<b>ⱽ</b>	<b>Ȿ</b>		<code>\mbffrakq</code>	mathematical bold fraktur small q
U+1D597	<b>Ɀ</b>	<b>ⱻ</b>	<b>ⱼ</b>	<b>ⱽ</b>	<b>Ȿ</b>		<code>\mbffrskr</code>	mathematical bold fraktur small r
U+1D598	<b>Ɀ</b>	<b>ⱻ</b>	<b>ⱼ</b>	<b>ⱽ</b>	<b>Ȿ</b>		<code>\mbffraks</code>	mathematical bold fraktur small s
U+1D599	<b>Ɀ</b>	<b>ⱻ</b>	<b>ⱼ</b>	<b>ⱽ</b>	<b>Ȿ</b>		<code>\mbffrakt</code>	mathematical bold fraktur small t
U+1D59A	<b>Ɀ</b>	<b>ⱻ</b>	<b>ⱼ</b>	<b>ⱽ</b>	<b>Ȿ</b>		<code>\mbffraku</code>	mathematical bold fraktur small u
U+1D59B	<b>Ɀ</b>	<b>ⱻ</b>	<b>ⱼ</b>	<b>ⱽ</b>	<b>Ȿ</b>		<code>\mbffrakv</code>	mathematical bold fraktur small v
U+1D59C	<b>Ɀ</b>	<b>ⱻ</b>	<b>ⱼ</b>	<b>ⱽ</b>	<b>Ȿ</b>		<code>\mbffrakw</code>	mathematical bold fraktur small w
U+1D59D	<b>Ɀ</b>	<b>ⱻ</b>	<b>ⱼ</b>	<b>ⱽ</b>	<b>Ȿ</b>		<code>\mbffrakx</code>	mathematical bold fraktur small x

USV	L	X	S	P	D	F	Macro	Description
U+1D59E	ŷ	ẏ	ȳ	Ƴ	ȶ		\mbffraky	mathematical bold fraktur small y
U+1D59F	Ẓ	Ẕ	ẖ	ẘ	ẚ		\mbffrakz	mathematical bold fraktur small z

### 13.2.13 Bold sans serif, Latin, uppercase

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

USV	L	X	S	P	D	F	Macro	Description
U+1D5E7	<b>T</b>	<b>T</b>	<b>T</b>	<b>T</b>	<b>T</b>		<code>\mbfsansT</code>	mathematical sans-serif bold capital t
U+1D5E8	<b>U</b>	<b>U</b>	<b>U</b>	<b>U</b>	<b>U</b>		<code>\mbfsansU</code>	mathematical sans-serif bold capital u
U+1D5E9	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>		<code>\mbfsansV</code>	mathematical sans-serif bold capital v
U+1D5EA	<b>W</b>	<b>W</b>	<b>W</b>	<b>W</b>	<b>W</b>		<code>\mbfsansW</code>	mathematical sans-serif bold capital w
U+1D5EB	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>		<code>\mbfsansX</code>	mathematical sans-serif bold capital x
U+1D5EC	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>		<code>\mbfsansY</code>	mathematical sans-serif bold capital y
U+1D5ED	<b>Z</b>	<b>Z</b>	<b>Z</b>	<b>Z</b>	<b>Z</b>		<code>\mbfsansZ</code>	mathematical sans-serif bold capital z

### 13.2.14 Bold sans serif, Latin, lowercase

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

USV	L	X	S	P	D	F	Macro	Description
U+1D5FC	<b>o</b>	<b>o</b>	<b>o</b>	<b>o</b>	<b>o</b>		<code>\mbfsanso</code>	mathematical sans-serif bold small o
U+1D5FD	<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>		<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>		<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>		<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>		<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>		<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>		<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>		<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>		<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>		<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>		<code>\mbfsansz</code>	mathematical sans-serif bold small z

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

USV	L	X	S	P	D	F	Macro	Description
U+1D63C	<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>		<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>		<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>		<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>		<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>		<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>		<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>		<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>		<code>\mbfitsansI</code>	mathematical sans-serif bold italic capital i

USV	L	X	S	P	D	F	Macro	Description
U+1D645	<i>J</i>	<i>J</i>	<i>J</i>	<i>J</i>	<i>J</i>		<code>\mbfitsansJ</code>	mathematical sans-serif bold italic capital j
U+1D646	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>		<code>\mbfitsansK</code>	mathematical sans-serif bold italic capital k
U+1D647	<i>L</i>	<i>L</i>	<i>L</i>	<i>L</i>	<i>L</i>		<code>\mbfitsansL</code>	mathematical sans-serif bold italic capital l
U+1D648	<i>M</i>	<i>M</i>	<i>M</i>	<i>M</i>	<i>M</i>		<code>\mbfitsansM</code>	mathematical sans-serif bold italic capital m
U+1D649	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>		<code>\mbfitsansN</code>	mathematical sans-serif bold italic capital n
U+1D64A	<i>O</i>	<i>O</i>	<i>O</i>	<i>O</i>	<i>O</i>		<code>\mbfitsansO</code>	mathematical sans-serif bold italic capital o
U+1D64B	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>		<code>\mbfitsansP</code>	mathematical sans-serif bold italic capital p
U+1D64C	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>		<code>\mbfitsansQ</code>	mathematical sans-serif bold italic capital q
U+1D64D	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>		<code>\mbfitsansR</code>	mathematical sans-serif bold italic capital r
U+1D64E	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>		<code>\mbfitsansS</code>	mathematical sans-serif bold italic capital s
U+1D64F	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>		<code>\mbfitsansT</code>	mathematical sans-serif bold italic capital t
U+1D650	<i>U</i>	<i>U</i>	<i>U</i>	<i>U</i>	<i>U</i>		<code>\mbfitsansU</code>	mathematical sans-serif bold italic capital u
U+1D651	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>		<code>\mbfitsansV</code>	mathematical sans-serif bold italic capital v
U+1D652	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>		<code>\mbfitsansW</code>	mathematical sans-serif bold italic capital w
U+1D653	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>		<code>\mbfitsansX</code>	mathematical sans-serif bold italic capital x
U+1D654	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>		<code>\mbfitsansY</code>	mathematical sans-serif bold italic capital y
U+1D655	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>		<code>\mbfitsansZ</code>	mathematical sans-serif bold italic capital z

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

USV	L	X	S	P	D	F	Macro	Description
U+1D656	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>		<code>\mbfitsansa</code>	mathematical sans-serif bold italic small a
U+1D657	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>		<code>\mbfitsansb</code>	mathematical sans-serif bold italic small b
U+1D658	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>		<code>\mbfitsansc</code>	mathematical sans-serif bold italic small c
U+1D659	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>		<code>\mbfitsansd</code>	mathematical sans-serif bold italic small d

USV	L	X	S	P	D	F	Macro	Description
U+1D65A	<i>e</i>	<i>e</i>	<i>e</i>	<i>e</i>	<i>e</i>		<code>\mbfimitsanse</code>	mathematical sans-serif bold italic small e
U+1D65B	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>		<code>\mbfimitsansf</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>		<code>\mbfimitsansg</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>		<code>\mbfimitsansh</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>		<code>\mbfimitsansi</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>		<code>\mbfimitsansj</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>		<code>\mbfimitsansk</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>		<code>\mbfimitsansl</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>		<code>\mbfimitsansm</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>		<code>\mbfimitsansn</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>		<code>\mbfimitsanso</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>		<code>\mbfimitsansp</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>		<code>\mbfimitsansq</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>		<code>\mbfimitsansr</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>		<code>\mbfimitsanss</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>		<code>\mbfimitsanst</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>		<code>\mbfimitsansu</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>		<code>\mbfimitsansv</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>		<code>\mbfimitsansw</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>		<code>\mbfimitsansx</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>		<code>\mbfimitsansy</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>		<code>\mbfimitsansz</code>	mathematical sans-serif bold italic small z

### 13.2.17 Bold sans serif Greek, uppercase

USV	L	X	S	P	D	F	Macro	Description
U+1D756	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>		<code>\mbfsansAlpha</code>	mathematical sans-serif bold capital alpha
U+1D757	<b>B</b>	<b>B</b>	<b>B</b>	<b>B</b>	<b>B</b>		<code>\mbfsansBeta</code>	mathematical sans-serif bold capital beta
U+1D758	<b>Γ</b>	<b>Γ</b>	<b>Γ</b>	<b>Γ</b>	<b>Γ</b>		<code>\mbfsansGamma</code>	mathematical sans-serif bold capital gamma
U+1D759	<b>Δ</b>	<b>Δ</b>	<b>Δ</b>	<b>Δ</b>	<b>Δ</b>		<code>\mbfsansDelta</code>	mathematical sans-serif bold capital delta
U+1D75A	<b>E</b>	<b>E</b>	<b>E</b>	<b>E</b>	<b>E</b>		<code>\mbfsansEpsilon</code>	mathematical sans-serif bold capital epsilon
U+1D75B	<b>Z</b>	<b>Z</b>	<b>Z</b>	<b>Z</b>	<b>Z</b>		<code>\mbfsansZeta</code>	mathematical sans-serif bold capital zeta
U+1D75C	<b>H</b>	<b>H</b>	<b>H</b>	<b>H</b>	<b>H</b>		<code>\mbfsansEta</code>	mathematical sans-serif bold capital eta
U+1D75D	<b>Θ</b>	<b>Θ</b>	<b>Θ</b>	<b>Θ</b>	<b>Θ</b>		<code>\mbfsansTheta</code>	mathematical sans-serif bold capital theta
U+1D75E	<b>I</b>	<b>I</b>	<b>I</b>	<b>I</b>	<b>I</b>		<code>\mbfsansIota</code>	mathematical sans-serif bold capital iota
U+1D75F	<b>K</b>	<b>K</b>	<b>K</b>	<b>K</b>	<b>K</b>		<code>\mbfsansKappa</code>	mathematical sans-serif bold capital kappa
U+1D760	<b>Λ</b>	<b>Λ</b>	<b>Λ</b>	<b>Λ</b>	<b>Λ</b>		<code>\mbfsansLambda</code>	mathematical sans-serif bold capital lambda
U+1D761	<b>M</b>	<b>M</b>	<b>M</b>	<b>M</b>	<b>M</b>		<code>\mbfsansMu</code>	mathematical sans-serif bold capital mu
U+1D762	<b>N</b>	<b>N</b>	<b>N</b>	<b>N</b>	<b>N</b>		<code>\mbfsansNu</code>	mathematical sans-serif bold capital nu
U+1D763	<b>Ξ</b>	<b>Ξ</b>	<b>Ξ</b>	<b>Ξ</b>	<b>Ξ</b>		<code>\mbfsansXi</code>	mathematical sans-serif bold capital xi
U+1D764	<b>O</b>	<b>O</b>	<b>O</b>	<b>O</b>	<b>O</b>		<code>\mbfsansOmicron</code>	mathematical sans-serif bold capital omicron
U+1D765	<b>Π</b>	<b>Π</b>	<b>Π</b>	<b>Π</b>	<b>Π</b>		<code>\mbfsansPi</code>	mathematical sans-serif bold capital pi
U+1D766	<b>P</b>	<b>P</b>	<b>P</b>	<b>P</b>	<b>P</b>		<code>\mbfsansRho</code>	mathematical sans-serif bold capital rho
U+1D767	<b>Θ</b>	<b>Θ</b>	<b>Θ</b>	<b>Θ</b>	<b>Θ</b>		<code>\mbfsansvarTheta</code>	mathematical sans-serif bold capital theta symbol
U+1D768	<b>Σ</b>	<b>Σ</b>	<b>Σ</b>	<b>Σ</b>	<b>Σ</b>		<code>\mbfsansSigma</code>	mathematical sans-serif bold capital sigma
U+1D769	<b>T</b>	<b>T</b>	<b>T</b>	<b>T</b>	<b>T</b>		<code>\mbfsansTau</code>	mathematical sans-serif bold capital tau
U+1D76A	<b>Υ</b>	<b>Υ</b>	<b>Υ</b>	<b>Υ</b>	<b>Υ</b>		<code>\mbfsansUpsilon</code>	mathematical sans-serif bold capital upsilon
U+1D76B	<b>Φ</b>	<b>Φ</b>	<b>Φ</b>	<b>Φ</b>	<b>Φ</b>		<code>\mbfsansPhi</code>	mathematical sans-serif bold capital phi
U+1D76C	<b>Χ</b>	<b>Χ</b>	<b>Χ</b>	<b>Χ</b>	<b>Χ</b>		<code>\mbfsansChi</code>	mathematical sans-serif bold capital chi
U+1D76D	<b>Ψ</b>	<b>Ψ</b>	<b>Ψ</b>	<b>Ψ</b>	<b>Ψ</b>		<code>\mbfsansPsi</code>	mathematical sans-serif bold capital psi



USV	L	X	S	P	D	F	Macro	Description
U+1D76E	Ω	Ω	Ω	Ω	Ω		<code>\mbfsansOmega</code>	mathematical sans-serif bold capital omega

### 13.2.18 Bold sans serif Greek, lowercase

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

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

### 13.2.19 Bold italic sans serif Greek, uppercase

USV	L	X	S	P	D	F	Macro	Description
U+1D790	<b>Α</b>	<b>Α</b>	<b>Α</b>	<b>Α</b>	<b>Α</b>		<code>\mbfitsansAlpha</code>	mathematical sans-serif bold italic capital alpha
U+1D791	<b>Β</b>	<b>Β</b>	<b>Β</b>	<b>Β</b>	<b>Β</b>		<code>\mbfitsansBeta</code>	mathematical sans-serif bold italic capital beta
U+1D792	<b>Γ</b>	<b>Γ</b>	<b>Γ</b>	<b>Γ</b>	<b>Γ</b>		<code>\mbfitsansGamma</code>	mathematical sans-serif bold italic capital gamma
U+1D793	<b>Δ</b>	<b>Δ</b>	<b>Δ</b>	<b>Δ</b>	<b>Δ</b>		<code>\mbfitsansDelta</code>	mathematical sans-serif bold italic capital delta
U+1D794	<b>Ε</b>	<b>Ε</b>	<b>Ε</b>	<b>Ε</b>	<b>Ε</b>		<code>\mbfitsansEpsilon</code>	mathematical sans-serif bold italic capital epsilon
U+1D795	<b>Ζ</b>	<b>Ζ</b>	<b>Ζ</b>	<b>Ζ</b>	<b>Ζ</b>		<code>\mbfitsansZeta</code>	mathematical sans-serif bold italic capital zeta
U+1D796	<b>Η</b>	<b>Η</b>	<b>Η</b>	<b>Η</b>	<b>Η</b>		<code>\mbfitsansEta</code>	mathematical sans-serif bold italic capital eta
U+1D797	<b>Θ</b>	<b>Θ</b>	<b>Θ</b>	<b>Θ</b>	<b>Θ</b>		<code>\mbfitsansTheta</code>	mathematical sans-serif bold italic capital theta
U+1D798	<b>Ι</b>	<b>Ι</b>	<b>Ι</b>	<b>Ι</b>	<b>Ι</b>		<code>\mbfitsansIota</code>	mathematical sans-serif bold italic capital iota

USV	L	X	S	P	D	F	Macro	Description
U+1D799	<b><i>K</i></b>	<b><i>κ</i></b>	<b><i>κ</i></b>	<b><i>κ</i></b>	<b><i>κ</i></b>		<code>\mbfitsansKappa</code>	mathematical sans-serif bold italic capital kappa
U+1D79A	<b><i>Λ</i></b>	<b><i>λ</i></b>	<b><i>λ</i></b>	<b><i>λ</i></b>	<b><i>λ</i></b>		<code>\mbfitsansLambda</code>	mathematical sans-serif bold italic capital lambda
U+1D79B	<b><i>M</i></b>	<b><i>μ</i></b>	<b><i>μ</i></b>	<b><i>μ</i></b>	<b><i>μ</i></b>		<code>\mbfitsansMu</code>	mathematical sans-serif bold italic capital mu
U+1D79C	<b><i>N</i></b>	<b><i>ν</i></b>	<b><i>ν</i></b>	<b><i>ν</i></b>	<b><i>ν</i></b>		<code>\mbfitsansNu</code>	mathematical sans-serif bold italic capital nu
U+1D79D	<b><i>Ξ</i></b>	<b><i>ξ</i></b>	<b><i>ξ</i></b>	<b><i>ξ</i></b>	<b><i>ξ</i></b>		<code>\mbfitsansXi</code>	mathematical sans-serif bold italic capital xi
U+1D79E	<b><i>Ο</i></b>	<b><i>ο</i></b>	<b><i>ο</i></b>	<b><i>ο</i></b>	<b><i>ο</i></b>		<code>\mbfitsansOmicron</code>	mathematical sans-serif bold italic capital omicron
U+1D79F	<b><i>Π</i></b>	<b><i>π</i></b>	<b><i>π</i></b>	<b><i>π</i></b>	<b><i>π</i></b>		<code>\mbfitsansPi</code>	mathematical sans-serif bold italic capital pi
U+1D7A0	<b><i>P</i></b>	<b><i>ρ</i></b>	<b><i>ρ</i></b>	<b><i>ρ</i></b>	<b><i>ρ</i></b>		<code>\mbfitsansRho</code>	mathematical sans-serif bold italic capital rho
U+1D7A1	<b><i>Θ</i></b>	<b><i>θ</i></b>	<b><i>θ</i></b>	<b><i>θ</i></b>	<b><i>θ</i></b>		<code>\mbfitsansvarTheta</code>	mathematical sans-serif bold italic capital theta symbol
U+1D7A2	<b><i>Σ</i></b>	<b><i>σ</i></b>	<b><i>σ</i></b>	<b><i>σ</i></b>	<b><i>σ</i></b>		<code>\mbfitsansSigma</code>	mathematical sans-serif bold italic capital sigma
U+1D7A3	<b><i>T</i></b>	<b><i>τ</i></b>	<b><i>τ</i></b>	<b><i>τ</i></b>	<b><i>τ</i></b>		<code>\mbfitsansTau</code>	mathematical sans-serif bold italic capital tau
U+1D7A4	<b><i>Υ</i></b>	<b><i>υ</i></b>	<b><i>υ</i></b>	<b><i>υ</i></b>	<b><i>υ</i></b>		<code>\mbfitsansUpsilon</code>	mathematical sans-serif bold italic capital upsilon
U+1D7A5	<b><i>Φ</i></b>	<b><i>φ</i></b>	<b><i>φ</i></b>	<b><i>φ</i></b>	<b><i>φ</i></b>		<code>\mbfitsansPhi</code>	mathematical sans-serif bold italic capital phi
U+1D7A6	<b><i>Χ</i></b>	<b><i>χ</i></b>	<b><i>χ</i></b>	<b><i>χ</i></b>	<b><i>χ</i></b>		<code>\mbfitsansChi</code>	mathematical sans-serif bold italic capital chi
U+1D7A7	<b><i>Ψ</i></b>	<b><i>ψ</i></b>	<b><i>ψ</i></b>	<b><i>ψ</i></b>	<b><i>ψ</i></b>		<code>\mbfitsansPsi</code>	mathematical sans-serif bold italic capital psi
U+1D7A8	<b><i>Ω</i></b>	<b><i>ω</i></b>	<b><i>ω</i></b>	<b><i>ω</i></b>	<b><i>ω</i></b>		<code>\mbfitsansOmega</code>	mathematical sans-serif bold italic capital omega

### 13.2.20 Bold italic sans serif Greek, lowercase

USV	L	X	S	P	D	F	Macro	Description
U+1D7AA	<b><i>α</i></b>	<b><i>α</i></b>	<b><i>α</i></b>	<b><i>α</i></b>	<b><i>α</i></b>		<code>\mbfitsansalpha</code>	mathematical sans-serif bold italic small alpha
U+1D7AB	<b><i>β</i></b>	<b><i>β</i></b>	<b><i>β</i></b>	<b><i>β</i></b>	<b><i>β</i></b>		<code>\mbfitsansbeta</code>	mathematical sans-serif bold italic small beta
U+1D7AC	<b><i>γ</i></b>	<b><i>γ</i></b>	<b><i>γ</i></b>	<b><i>γ</i></b>	<b><i>γ</i></b>		<code>\mbfitsansgamma</code>	mathematical sans-serif bold italic small gamma
U+1D7AD	<b><i>δ</i></b>	<b><i>δ</i></b>	<b><i>δ</i></b>	<b><i>δ</i></b>	<b><i>δ</i></b>		<code>\mbfitsansdelta</code>	mathematical sans-serif bold italic small delta
U+1D7AE	<b><i>ε</i></b>	<b><i>ε</i></b>	<b><i>ε</i></b>	<b><i>ε</i></b>	<b><i>ε</i></b>		<code>\mbfitsansvarepsilon</code>	mathematical sans-serif bold italic small varepsilon

USV	L	X	S	P	D	F	Macro	Description
U+1D7AF	ζ	ζ	ζ	ζ	ζ		\mbfitsanszeta	mathematical sans-serif bold italic small zeta
U+1D7B0	η	η	η	η	η		\mbfitsanseta	mathematical sans-serif bold italic small eta
U+1D7B1	θ	θ	θ	θ	θ		\mbfitsanstheta	mathematical sans-serif bold italic small theta
U+1D7B2	ι	ι	ι	ι	ι		\mbfitsansiota	mathematical sans-serif bold italic small iota
U+1D7B3	κ	κ	κ	κ	κ		\mbfitsanskappa	mathematical sans-serif bold italic small kappa
U+1D7B4	λ	λ	λ	λ	λ		\mbfitsanslambda	mathematical sans-serif bold italic small lambda
U+1D7B5	μ	μ	μ	μ	μ		\mbfitsansmu	mathematical sans-serif bold italic small mu
U+1D7B6	ν	ν	ν	ν	ν		\mbfitsansnu	mathematical sans-serif bold italic small nu
U+1D7B7	ξ	ξ	ξ	ξ	ξ		\mbfitsansxi	mathematical sans-serif bold italic small xi
U+1D7B8	ο	ο	ο	ο	ο		\mbfitsansomicron	mathematical sans-serif bold italic small omicron
U+1D7B9	π	π	π	π	π		\mbfitsanspi	mathematical sans-serif bold italic small pi
U+1D7BA	ρ	ρ	ρ	ρ	ρ		\mbfitsansrho	mathematical sans-serif bold italic small rho
U+1D7BB	ς	ς	ς	ς	ς		\mbfitsansvarsigma	mathematical sans-serif bold italic small final sigma
U+1D7BC	σ	σ	σ	σ	σ		\mbfitsanssigma	mathematical sans-serif bold italic small sigma
U+1D7BD	τ	τ	τ	τ	τ		\mbfitsanstau	mathematical sans-serif bold italic small tau
U+1D7BE	υ	υ	υ	υ	υ		\mbfitsansupsilon	mathematical sans-serif bold italic small upsilon
U+1D7BF	φ	φ	φ	φ	φ		\mbfitsansvarphi	mathematical sans-serif bold italic small phi
U+1D7C0	χ	χ	χ	χ	χ		\mbfitsanschi	mathematical sans-serif bold italic small chi
U+1D7C1	ψ	ψ	ψ	ψ	ψ		\mbfitsanspsi	mathematical sans-serif bold italic small psi
U+1D7C2	ω	ω	ω	ω	ω		\mbfitsansomega	mathematical sans-serif bold italic small omega
U+1D7C3	∂	∂	∂	∂	∂		\mbfitsanspartial	mathematical sans-serif bold italic partial differential
U+1D7C4	ε	ε	ε	ε	ε		\mbfitsansepsilon	mathematical sans-serif bold italic varepsilon symbol
U+1D7C5	θ	θ	θ	θ	θ		\mbfitsansvartheta	mathematical sans-serif bold italic theta symbol
U+1D7C6	κ	κ	κ	κ	κ		\mbfitsansvarkappa	mathematical sans-serif bold italic kappa symbol

USV	L	X	S	P	D	F	Macro	Description
U+1D7C7	$\phi$	$\phi$	$\phi$	$\phi$	$\phi$		<code>\mbfitsansphi</code>	mathematical sans-serif bold italic phi symbol
U+1D7C8	$\rho$	$\rho$	$\rho$	$\rho$	$\rho$		<code>\mbfitsansvarrho</code>	mathematical sans-serif bold italic rho symbol
U+1D7C9	$\pi$	$\pi$	$\pi$	$\pi$	$\pi$		<code>\mbfitsansvarpi</code>	mathematical sans-serif bold italic pi symbol

### 13.3 Miscellaneous

USV	L	X	S	P	D	F	Macro	Description
U+000F0	ð	ð	ð	ð	ð	ð	<code>\matheth</code>	eth
U+02010	-	-	-	-	-	-	<code>\mathhyphen</code>	hyphen
U+02102	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	<code>\BbbC</code>	/bbb c, open face c
U+0210A		ƒ	ƒ	ƒ	ƒ	ƒ	<code>\mscrf</code>	/scr f, script letter f
U+0210B	ℋ	ℋ	ℋ	ℋ	ℋ		<code>\mscrH</code>	hamiltonian (script capital h)
U+0210C	ℎ	ℎ	ℎ	ℎ	ℎ		<code>\mfracH</code>	/frac h, upper case h
U+0210D	ℍ	ℍ	ℍ	ℍ	ℍ	ℍ	<code>\BbbH</code>	/bbb h, open face h
U+0210F	ℏ	ℏ	ℏ	ℏ	ℏ	ℏ	<code>\hslash<sup>(a)</sup></code>	/hslash - variant planck's over 2pi
U+02110	ℐ	ℐ	ℐ	ℐ	ℐ		<code>\mscrI</code>	/scr i, script letter i
U+02111	ℑ	ℑ	ℑ	ℑ	ℑ		<code>\Im<sup>(p)</sup></code>	imaginary part
U+02112	ℒ	ℒ	ℒ	ℒ	ℒ		<code>\mscrL</code>	lagrangian (script capital l)
U+02113	ℓ	ℓ	ℓ	ℓ	ℓ	ℓ	<code>\ell<sup>(p)</sup></code>	cursive small l
U+02115	ℕ	ℕ	ℕ	ℕ	ℕ	ℕ	<code>\BbbN</code>	/bbb n, open face n
U+02118	℘	℘	℘	℘	℘		<code>\wp<sup>(p)</sup></code>	weierstrass p
U+02119	ℙ	ℙ	ℙ	ℙ	ℙ	ℙ	<code>\BbbP</code>	/bbb p, open face p
U+0211A	ℚ	ℚ	ℚ	ℚ	ℚ	ℚ	<code>\BbbQ</code>	/bbb q, open face q
U+0211B	ℛ	ℛ	ℛ	ℛ	ℛ		<code>\mscrR</code>	/scr r, script letter r
U+0211C	ℜ	ℜ	ℜ	ℜ	ℜ		<code>\Re<sup>(p)</sup></code>	real part

USV	L	X	S	P	D	F	Macro	Description
U+0211D	$\mathbb{R}$	$\mathbb{R}$	$\mathbb{R}$	$\mathbb{R}$	$\mathbb{R}$	$\mathbb{R}$	<code>\BbbR</code>	/bbb r, open face r
U+02124	$\mathbb{Z}$	$\mathbb{Z}$	$\mathbb{Z}$	$\mathbb{Z}$	$\mathbb{Z}$	$\mathbb{Z}$	<code>\BbbZ</code>	/bbb z, open face z
U+02128	$\mathfrak{Z}$	$\mathfrak{Z}$	$\mathfrak{Z}$	$\mathfrak{Z}$	$\mathfrak{Z}$		<code>\mfracZ</code>	/frac z, upper case z
U+02129		$\iota$	$\iota$				<code>\turnediota</code>	turned iota
U+0212B	$\text{\AA}$	$\text{\AA}$	$\text{\AA}$	$\text{\AA}$	$\text{\AA}$	$\text{\AA}$	<code>\Angstrom</code>	angstrom capital a, ring
U+0212C	$\mathcal{B}$	$\mathcal{B}$	$\mathcal{B}$	$\mathcal{B}$	$\mathcal{B}$		<code>\mscrB</code>	bernoulli function (script capital b)
U+0212D	$\mathfrak{C}$	$\mathfrak{C}$	$\mathfrak{C}$	$\mathfrak{C}$	$\mathfrak{C}$		<code>\mfracC</code>	black-letter capital c
U+0212F		$e$	$e$	$e$	$e$		<code>\mscre</code>	/scr e, script letter e
U+02130	$\mathcal{E}$	$\mathcal{E}$	$\mathcal{E}$	$\mathcal{E}$	$\mathcal{E}$		<code>\mscrE</code>	/scr e, script letter e
U+02131	$\mathcal{F}$	$\mathcal{F}$	$\mathcal{F}$	$\mathcal{F}$	$\mathcal{F}$		<code>\mscrF</code>	/scr f, script letter f
U+02133	$\mathcal{M}$	$\mathcal{M}$	$\mathcal{M}$	$\mathcal{M}$	$\mathcal{M}$		<code>\mscrM</code>	physics m-matrix (script capital m)
U+02134		$o$	$o$	$o$	$o$		<code>\mscro</code>	order of (script small o)
U+02135	$\aleph$	$\aleph$	$\aleph$	$\aleph$	$\aleph$	$\aleph$	<code>\aleph<sup>(p)</sup></code>	aleph, hebrew
U+02136	$\beth$	$\beth$	$\beth$	$\beth$	$\beth$	$\beth$	<code>\beth<sup>(a)</sup></code>	beth, hebrew
U+02137	$\gimel$	$\gimel$	$\gimel$	$\gimel$	$\gimel$	$\gimel$	<code>\gimel<sup>(a)</sup></code>	gimel, hebrew
U+02138	$\daleth$	$\daleth$	$\daleth$	$\daleth$	$\daleth$	$\daleth$	<code>\daleth<sup>(a)</sup></code>	daleth, hebrew
U+0213D	$\mathbb{g}$	$\mathbb{g}$	$\mathbb{g}$	$\mathbb{g}$	$\mathbb{g}$		<code>\Bbbgamma</code>	double-struck small gamma
U+0213E	$\mathbb{G}$	$\mathbb{G}$	$\mathbb{G}$	$\mathbb{G}$	$\mathbb{G}$		<code>\BbbGamma</code>	double-struck capital gamma
U+0213F	$\mathbb{P}$	$\mathbb{P}$	$\mathbb{P}$	$\mathbb{P}$	$\mathbb{P}$		<code>\BbbPi</code>	double-struck capital pi
U+02202	$\partial$	$\partial$	$\partial$	$\partial$	$\partial$	$\partial$	<code>\partial<sup>(p)</sup></code>	partial differential
U+02207	$\nabla$	$\nabla$	$\nabla$	$\nabla$	$\nabla$	$\nabla$	<code>\nabla<sup>(p)</sup></code>	nabla, del, hamilton operator
U+1D6A4	$\mathit{i}$	$\mathit{i}$	$\mathit{i}$	$\mathit{i}$	$\mathit{i}$	$\mathit{i}$	<code>\imath<sup>(p)</sup></code>	mathematical italic small dotless i
U+1D6A5	$\mathit{j}$	$\mathit{j}$	$\mathit{j}$	$\mathit{j}$	$\mathit{j}$	$\mathit{j}$	<code>\jmath<sup>(p)</sup></code>	mathematical italic small dotless j
U+1D6C1	$\nabla$	$\nabla$	$\nabla$	$\nabla$	$\nabla$	$\nabla$	<code>\mbfnabla</code>	mathematical bold nabla

USV	L	X	S	P	D	F	Macro	Description
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		Ⓕ	Ⓖ				<code>\mbfDigamma</code>	mathematical bold capital digamma
U+1D7CB		Ⓕ	Ⓖ				<code>\mbfdigamma</code>	mathematical bold small digamma