Symbols defined by unicode-math

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Modified (df) to show Erewhon Math symbols

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)¹

- M Latin Modern Math (1602)
- S STIX Two Math (2445)
- E Erewhon Math (1669)
- P TeX Gyre Pagella Math (1655)
- D DejaVu Math TeX Gyre (1657)
- L Libertinus Math (1657)
- G Garamond Math (1647)

Symbols defined in Plain TeX are indicated with $^{(p)}$ after their macro name. LATeX follows Plain TeX, but defines a handful more, indicated with $^{(l)}$. Symbols defined in amssymb are indicated with $^{(a)}$.

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.²

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¹Be aware that 48 lowercase latin letters are missing in *Script* and *BoldScript* shapes for both Latin Modern Math and Erewhon Math, compared to the other four fonts.

²Only a single T_EX 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	M	S	Е	P	D	L	G	Macro	Description
U+00028	(((((((\lparen	left parenthesis
и+0005в	[[[[[[[\lbrack left square bracket	
и+0007в	{	{	{	{	{	{	{	$\label{lbrace} \$	left curly bracket
U+0221A				√			√	$f \sqrt^{(p)}$	radical
U+0221B		3 √				3 √		\cuberoot	cube root
U+0 22 1C		4 √				4 √		\fourthroot	fourth root
U+02308	Γ	ſ	Γ	ſ	ſ	ſ	ſ	$\texttt{\local}^{(p)}$	left ceiling
U+0230A	L	l	L	l	l	L	l	$\label{loor} $$ \label{loor} $$ \label{loor}$	left floor
U+0 23 1C	г	Г	Г	г	г	г	г	\ulcorner	upper left corner
U+0231E	L	L	L	L	L	L	L	\llcorner	lower left corner
u+0 2 3в0		ſ	ſ			ſ		\lmoustache ^(p)	upper left or lower right curly bracket section
U+02772		(\lbrbrak	light left tortoise shell bracket ornament
u+027C5		l						\lbag	left s-shaped bag delimiter
U+0 27 CC)						\longdivision	long division
u+027E6			[\1Brack	mathematical left white square bracket
U+027E8	<	(<	<	(<	($\label{langle} $$ \aligned \ensuremath{langle}^{(p)} $$	mathematical left angle bracket
U+027EA	«	«	((«	((«	((\lAngle	mathematical left double angle bracket
U+027EC		((\Lbrbrak	mathematical left white tortoise shell bracket
U+0 2 7EE	((((((($\verb \lgroup ^{(p)}$	mathematical left flattened parenthesis

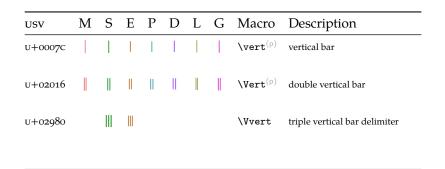
USV	M	S	E	P	D	L	G	Macro	Description
u+02983		{						\lBrace	left white curly bracket
u+02985		(\lParen	left white parenthesis
u+02987		1				(\llparenthesis	z notation left image bracket
u+0 2 989		1						\llangle	z notation left binding bracket
u+0298в		Ī						\lbrackubar	left square bracket with underbar
u+0298d								\lbrackultick	left square bracket with tick in top corner
u+0298f		[\lbracklltick	left square bracket with tick in bottom corner
u+0 2 991		(\langledot	left angle bracket with dot
u+0 2 993		<						\lparenless	left arc less-than bracket
u+02995		₩						\Lparengtr	double left arc greater-than bracket
u+0 2 997		(\lblkbrbrak	left black tortoise shell bracket
u+0 2 9d8		}						\lvzigzag	left wiggly fence
u+0 2 9da		***						\Lvzigzag	left double wiggly fence
u+0 2 9FC		<				<		\lcurvyangle	left pointing curved angle bracket

2 Closing symbols, \mathclose

USV	M	S	Е	P	D	L	G	Macro	Description
U+00021	!	!	!	!	!	!	!	\mathexclam	exclamation mark
U+000 2 9)))))))	\rparen	right parenthesis
U+0005D]]]]]]]	\rbrack	right square bracket
U+0007D	}	}	}	}	}	}	}	$\verb \rbrace ^{(p)}$	right curly bracket
U+02309	7	1	1	1	1	1	1	${\tt \cd}^{(p)}$	right ceiling
U+0230B		J	J	J	J	J	J	$\verb \rfloor ^{(p)}$	right floor
U+0231D	٦	٦	٦	7	٦	٦	٦	\urcorner	upper right corner
U+0231F	٦	٦	٦	_	٦	٦	٦	\lrcorner	lower right corner
U+023B1		J	J			}		$\verb \mbox \verb tmoustache $	upper right or lower left curly bracket section
U+02773)						\rbrbrak	light right tortoise shell bracket ornament
U+027C6		S						\rbag	right s-shaped bag delimiter
U+027E7]	1	1]]]]	\rBrack	mathematical right white square bracket
U+027E9	>	>	>	>	>	>	>	$\texttt{\normalgle}^{(p)}$	mathematical right angle bracket
U+027EB	»	»	>>	>>	>>	») }	\rAngle	mathematical right double angle bracket
U+027ED		D						\Rbrbrak	mathematical right white tor- toise shell bracket
U+0 2 7EF)))))))	$\verb \rgroup ^{(p)}$	mathematical right flattened parenthesis
u+02984		}						\rBrace	right white curly bracket
u+02986)						\rParen	right white parenthesis
u+02988		D)		\rrparenthesis	z notation right image bracket

USV	M	S	Е	P	D	L	G	Macro	Description
u+0298a		>						\rrangle	z notation right binding bracket
u+0298c]						\rbrackubar	right square bracket with un- derbar
u+0298e]						\rbracklrtick	right square bracket with tick in bottom corner
u+0 2 990]						\rbrackurtick	right square bracket with tick in top corner
U+02992		>						\rangledot	right angle bracket with dot
u+02994		>						\rparengtr	right arc greater-than bracket
u+02996		¥						\Rparenless	double right arc less-than bracket
u+02998)						\rblkbrbrak	right black tortoise shell bracket
U+029D9		**						\rvzigzag	right wiggly fence
U+029DB		#						\Rvzigzag	right double wiggly fence
u+0 2 9FD		>				>		\rcurvyangle	right pointing curved angle bracket

3 Fence symbols, \mathfence



4 Punctuation symbols, \mathpunct

USV	M	S	E	P	D	L	G	Macro	Description
U+0002C	,	,	,	,	,	,	,	\mathcomma	comma
U+0003A	:	:	:	:	:	:	:	\mathcolon	colon
U+0003B	;	;	;	;	;	;	;	\mathsemicolon	semicolon p:

5 'Over' symbols, \mathover

USV	M	S	E	P	D	L	G	Macro	Description
U+023B4	$\overline{x+y}$	$\overline{x+y}$	$\overline{x+y}$	$\overline{x+y}$	x + y	x + y	$\overline{x+y}$	\overbracket	top square bracket
U+0 2 3DC	$\widehat{x+y}$	$\widehat{x+y}$	$\widehat{x+y}$	$\widehat{x+y}$	$\widehat{x+y}$	$\widehat{x+y}$	$\widehat{x+y}$	\overparen	top parenthesis (mathematical use)
U+023DE	$\widehat{x+y}$	$\widetilde{x+y}$	$\widehat{x+y}$	$\widehat{x+y}$	$\overrightarrow{x+y}$	$\widetilde{x+y}$	$\widetilde{x+y}$	$\verb \vorbrace ^{(p)}$	top curly bracket (mathematical use)

6 'Under' symbols, \mathunder

USV	M	S	Е	Р	D	L	G	Macro	Description
U+023B5	$\underline{x+y}$	$\underline{x+y}$	x + y	x + y	x + y	x + y	$\frac{x+y}{}$	\underbracket	bottom square bracket
U+023DD	$\underbrace{x+y}$	\underparen	bottom parenthesis (mathematical use)						
U+023DF	$\underbrace{x+y}$	$\verb \underbrace ^{(p)}$	bottom curly bracket (mathematical use)						

7 Accents, \mathaccent

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

USV	M	S	Е	P	D	L	G	Macro	Description
U+00300	à	x	x	x	x	x	à	\grave ^(p)	grave accent
U+00301	ź	ź	ź	ź	ź	ź	ź		acute accent
U+00302	\hat{x}	â	\hat{x}	$\hat{\chi}$	â	â	\hat{x}	$\operatorname{\mathtt{hat}}^{(\operatorname{p})}$	circumflex accent
u+00303	$ ilde{x}$	\tilde{X}	\tilde{x}	\tilde{x}	\tilde{x}	\tilde{x}	$ ilde{x}$	$f hilde^{(p)}$	tilde
U+00304	\bar{x}	\bar{X}	\bar{x}	\bar{x}	\bar{x}	\bar{x}	\bar{x}	$\operatorname{f bar}^{(p)}$	macron
U+00305	\bar{x}	\bar{x}	\overline{x}	\bar{x}	\bar{x}	\bar{x}	\bar{x}	\overbar	overbar embellishment
U+00306	$reve{x}$	x	X	\breve{x}	ĭ	\check{x}	x	\breve ^(p)	breve
u+00307	\dot{x}	ż	$\dot{\mathcal{X}}$	χ̈́	ż	\dot{x}	\dot{x}	$\operatorname{\mathtt{dot}}^{(p)}$	dot above
u+00308	\ddot{x}	ÿ	\ddot{x}	ÿ	ÿ	ÿ	\ddot{x}	$\dot^{(p)}$	dieresis
U+00309	\dot{x}	\vec{x}	$\dot{\hat{X}}$	$\mathring{\mathcal{X}}$	ż	x	\dot{x}	\ovhook	combining hook above
U+0030A	\mathring{x}	_x	$\mathring{\mathcal{X}}$	_Å	_X	$\mathring{\mathcal{X}}$	$\mathring{\mathcal{X}}$	\ocirc	ring
U+0030C	\check{x}	ž	ž	ž	ž	Ř	ž	$\c \c \$	caron
U+00310		х̈́				χ̈́		\candra	candrabindu (non-spacing)
U+00312		ʻx				χ̈́		\oturnedcomma	combining turned comma above
U+00315		'n				$\dot{\vec{X}}$		\ocommatopright	combining comma above right
U+0031A		x				$\vec{\mathcal{X}}$		\droang	left angle above (non-spacing)
U+0 2 0D0	\overline{x}	$\dot{\bar{x}}$	\bar{x}	ź	ź	ź	$\dot{\bar{x}}$	\leftharpoonaccent	combining left harpoon above
U+020D1	\vec{x}	\vec{x}	\vec{x}	\vec{x}	\vec{x}	\vec{x}	\vec{x}	\rightharpoonaccent	combining right harpoon above
U+020D2	\dot{x}	x	$\frac{1}{x}$	x	×		x	\vertoverlay combining long vertical lin overlay	
U+020D7	\vec{x}	\vec{x}	\vec{x}	$\vec{\chi}$	\vec{x}	\vec{x}	\vec{x}	$\mathbf{Vec}^{(p)}$	combining right arrow above

USV	M	S	Е	Р	D	L	G	Macro	Description
U+020DB	\ddot{x}	ÿ	\ddot{x}	ï	ÿ	ÿ	\ddot{x}	\dddot	combining three dots above
U+020DC	\ddot{x}	\ddot{x}	\overline{x}	ïx.	ïï	\ddot{x}	$\frac{\dots}{x}$	\ddddot	combining four dots above
U+020E7		\overline{x}						\annuity	combining annuity symbol
U+020E9	\bar{x}	\overline{x}	\overline{x}	\vec{x}	\vec{x}		\overline{x}	\widebridgeabove	combining wide bridge above
U+020F0	\mathring{x}	* <i>x</i>	*	*	*X		$\overset{*}{\mathcal{X}}$	\asteraccent	combining asterisk above

8 Accents wide, \mathaccentwide

USV	M	S	Е	Р	D	L	G	Macro	Description
U+00302	$\widehat{x+y}$	$\widehat{x+y}$	$\widehat{x+y}$	$\widehat{x+y}$	$\widehat{x + y}$	$\widehat{x+y}$	$\widehat{x+y}$	$\widehat^{(p)}$	circumflex accent
U+00303	$\widetilde{x+y}$	$\widetilde{x+y}$	$\widetilde{x+y}$	$\widetilde{x+y}$	$\widetilde{x + y}$	$\widetilde{x+y}$	$\widetilde{x+y}$	$\verb \widetilde ^{(p)}$	tilde
u+00305	$\overline{x+y}$	$\overline{x+y}$	$\overline{x+y}$	$\overline{x+y}$	$\overline{x+y}$	$\overline{x+y}$	$x \neq y$	\wideoverbar	stretchy overbar embellishment
u+00306	$\underbrace{x+y}$	$x \neq y$	$\underbrace{x+y}$	x + y	x + y	x + y	$\underbrace{x+y}$	\widebreve	stretchy breve
U+0030C	$\widetilde{x+y}$	$\widetilde{x+y}$	$\widetilde{x+y}$	x + y	x + y	$\widetilde{x+y}$	$\underbrace{x+y}$	\widecheck	stretchy caron
U+020D0	$\overline{x+y}$	x + y	$\overline{x+y}$	$\frac{1}{x+y}$	$\frac{1}{x+y}$	x + y	$\frac{1}{x+y}$	\overleftharpoon	combining left harpoon above
U+020D1	$\overrightarrow{x+y}$	\overrightharpoon	combining right harpoon above						
U+020D6	$\overleftarrow{x+y}$	$\overleftarrow{x+y}$	$\overleftarrow{x+y}$	$\overleftarrow{x+y}$	$\overleftarrow{x+y}$	$\overleftarrow{x+y}$	$\frac{1}{x+y}$	$\verb \overleftarrow ^{(p)}$	combining left arrow above
U+020D7	$\overrightarrow{x+y}$	$\verb \overrightarrow ^{(p)}$	combining left arrow above						
U+020E1	$\overleftarrow{x+y}$	\overleftrightarrow	combining left right arrow above						

9 Bottom accents, \mathbotaccent

usv	M	S	Е	P	D	L	G	Macro	Description
U+020E8	\underline{x}	<u>.x</u>	<u>.x</u>	Х.	<u>X</u>		<u>x</u> .	\threeunderdot	combining triple underdot

10 Bottom accents wide, \mathbotaccentwide

USV	M	S	E	P	D	L	G	Macro	Description
U+00330	$\underbrace{x+y}$	$\underbrace{x+y}$	$\underbrace{x+y}$	x + y	x + y	$\underbrace{x+y}$	x + y	\wideutilde	under tilde accent (multiple characters and non-spacing)
U+00332	$\underline{x+y}$	$\underline{x+y}$	$\frac{x+y}{}$	$\frac{x+y}{}$	$\frac{x+y}{}$	$\frac{x+y}{}$	x + y	\mathunderbar	combining low line
U+0034D	$\xrightarrow{x+y}$	x + y	$\xrightarrow{x+y}$	$\xrightarrow{x+y}$	$\xrightarrow{x + y}$	x + y	$\xrightarrow{x+y}$	\underleftrightarrow	underleftrightarrow accent
U+020EC	$\xrightarrow{x+y}$	$\xrightarrow{x+y}$	$\frac{x+y}{}$	$\xrightarrow{x+y}$	$\frac{x+y}{}$		$\xrightarrow{x+y}$	\underrightharpoondown	combining rightwards harpoon with barb downwards
U+020ED	$\frac{x+y}{}$	$\underbrace{x+y}$	$\frac{x+y}{}$	<u>x + y</u>	<u>x + y</u>		$\underbrace{x+y}$	\underleftharpoondown	combining leftwards harpoon with barb downwards
U+020EE	$\underbrace{x+y}$	$\underbrace{x+y}$	x + y	x + y	$\frac{x+y}{}$	x + y	x + y	\underleftarrow	combining left arrow below
U+020EF	$\xrightarrow{x+y}$	$\xrightarrow{x+y}$	$\xrightarrow{x+y}$	$\xrightarrow{x+y}$	$\xrightarrow{x+y}$	$\xrightarrow{x+y}$	$\xrightarrow{x+y}$	\underrightarrow	combining right arrow below

11 Big operators, \mathop

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

USV	M	S	Е	Р	D	L	G	Macro	Description
u+0 2 140	∑ 0	\sum_{0}^{1}	\sum_{0}^{1}	\sum_{0}^{1}	\sum_{0}^{1}		\sum_{0}^{1}	\Bbbsum	double-struck n-ary summation
U+0 22 0F	\prod_{0}^{1}	\prod_{0}^{1}	\prod_{0}^{1}	\prod_{0}^{1}	\prod_{0}^{1}	\prod_{0}^{1}	\prod_{0}^{1}	$\backslash \mathbf{prod}^{(p)}$	product operator
U+0 221 0	\coprod_{0}^{1}	\coprod_{0}^{1}	\coprod_{0}^{1}	\coprod_{0}^{1}	\coprod_{0}^{1}	\coprod_{0}^{1}	\coprod_{0}^{1}	$\backslash \mathtt{coprod}^{(p)}$	coproduct operator
U+0 22 11	\sum_{0}^{1}	\sum_{0}^{1}	\sum_{0}^{1}	\sum_{0}^{1}	\sum_{0}^{1}	\sum_{0}^{1}	\sum_{0}^{1}	$\sum_{p} \mathbf{v}(p)$	summation operator
U+0222B	\int_0^1	\int_0^1	\int_0^1	\int_0^1	\int_0^1	\int_0^1	\int_0^1	$\operatorname{f lint}^{(p)}$	integral operator
U+0 222 C	\int_{0}^{1}	\int_{0}^{1}	\int_{0}^{1}	\int_{0}^{1}	\int_{0}^{1}	\int_{0}^{1}	\int_{0}^{1}	\iint	double integral operator
U+0 222 D	\iiint_0^1	\iint_0^1	\iint_0^1	\iint_0^1	\iint_0^1	${\displaystyle \iiint_{0}^{1}}$	\iint_0^1	\iiint	triple integral operator
U+0222E	\oint_0^1	\oint_0^1	\oint_0^1	\oint_0^1	\oint_0^1	\oint_0^1	\oint_0^1	$\mathbf{ightarrow oint}^{(p)}$	contour integral operator
U+0222F	\oint_0^1	\iint_0^1	${\displaystyle\iint_{0}^{1}}$	\iint_0^1	\oiint_0^1	\iint_0^1	\iint_0^1	\oiint	double contour integral operator
U+0 223 0	\iint_0^1	\iint_0^1	\iint_0^1	\iint_0^1	\oiint_0^1	\iint_0^1	\iint_0^1	\oiiint	triple contour integral operator
U+02231	\int_0^1	\int_0^1	\int_0^1	\int_0^1	\int_0^1	\int_0^1	\int_0^1	\intclockwise	clockwise integral
U+02232	\oint_0^1	\oint_0^1	\oint_0^1	\oint_0^1	\oint_0^1	\oint_0^1	\oint_0^1	\varointclockwise	contour integral, clockwise
U+0 22 33	\oint_0^1	\oint_0^1	\oint_0^1	\oint_0^1	\oint_0^1	\oint_0^1	\oint_0^1	\ointctrclockwise	contour integral, anticlockwise
U+0 22 C0	\bigwedge_{0}^{1}	\bigwedge_{0}^{1}	\bigwedge_{0}^{1}	\bigwedge_{0}^{1}	\bigwedge_{0}^{1}	\bigwedge_{0}^{1}	\bigwedge_{0}^{1}	$\verb \bigwedge ^{(p)}$	logical and operator
U+022C1	\bigvee_{0}^{1}	\bigvee_{0}^{1}	\bigvee_{0}^{1}	\bigvee_{0}^{1}	\bigvee_{0}^{1}	\bigvee_{0}^{1}	\bigvee_{0}^{1}	$\mathbf{bigvee}^{(p)}$	logical or operator

USV	M	S	Е	Р	D	L	G	Macro	Description
U+022C2	\bigcap_{0}^{1}	\bigcap_{0}^{1}	\bigcap_{0}^{1}	\bigcap_{0}^{1}	\bigcap_{0}^{1}		\bigcap_{0}^{1}	$\begin{subarray}{c} \begin{subarray}{c} \beg$	intersection operator
U+022C3	\bigcup_{0}^{1}	\bigcup_{0}^{1}	\bigcup_{0}^{1}	\bigcup_{0}^{1}	\bigcup_{0}^{1}	\bigcup_{0}^{1}	\bigcup_{0}^{1}	$\mathbf{bigcup}^{(p)}$	union operator
U+027D5		$\underset{0}{\overset{1}{\bowtie}}$						\leftouterjoin	left outer join
U+027D6		$ \stackrel{1}{\bowtie}_{0} $						\rightouterjoin	right outer join
U+027D7		\sum_{0}^{1}						\fullouterjoin	full outer join
U+027D8	1	1 0	1 0	1 0	1 0		$\frac{1}{0}$	\bigbot	large up tack
U+027D9	1 0	$\frac{1}{\int_{0}^{1}}$	1 0	1 0	1 0		1 0	\bigtop	large down tack
u+029F8		1 / 0						\xsol	big solidus
U+029F9		1						\xbsol	big reverse solidus
U+02A00	\bigcup_{0}^{1}	\bigcup_{0}^{1}	\bigcup_{0}^{1}	\bigcup_{0}^{1}	\bigcup_{0}^{1}	\bigcup_{0}^{1}	\bigcup_{0}^{1}	$\verb \bigodot ^{(p)}$	n-ary circled dot operator
U+0 2 A01	\bigoplus_{0}^{1}	\bigoplus_{0}^{1}	\bigoplus_{0}^{1}	\bigoplus_{0}^{1}	\bigoplus_{0}^{1}	\bigoplus_{0}^{1}	\bigoplus_{0}^{1}	$\verb \bigoplus ^{(p)}$	n-ary circled plus operator
U+02A02	\bigotimes_0^1	\bigotimes_{0}^{1}	\bigotimes_{0}^{1}	\bigotimes_{0}^{1}	\bigotimes_{0}^{1}	\bigotimes_{0}^{1}	\bigotimes_{0}^{1}	$\verb \bigotimes ^{(p)}$	n-ary circled times operator
U+02A03				\bigcup_{0}^{1}	\bigcup_{0}^{1}	1		\bigcupdot	n-ary union operator with dot
U+02A04	1		1	1	1	1	1	$ackslash ext{biguplus}^{(ext{p})}$	n-ary union operator with plus
U+02A05				\bigcap_{0}^{1}		0		\bigsqcap	n-ary square intersection operator
U+02A06						1		$\verb \bigsqcup ^{(p)}$	n-ary square union operator
U+02A07								\conjquant	two logical and operator

USV	M	S	Е	P	D	L	G	Macro	Description
U+02A08								\disjquant	two logical or operator
U+02A09	$\underset{0}{\overset{1}{\times}}$	\sum_{0}^{1}	$\underset{0}{\overset{1}{\times}}$	$\underset{0}{\overset{1}{\times}}$	$\underset{0}{\overset{1}{\times}}$		$\underset{0}{\overset{1}{\times}}$	\bigtimes	n-ary times operator
U+0 2 A0A		\sum_{0}^{1}						\modtwosum	modulo two sum
U+02A0B		$\sum_{i=0}^{1}$						\sumint	summation with integral
U+0 2 AOC	\iiint_0^1	\iiint_0^1	\iiint_0^1	\iiint_0^1	\iiint_0^1	\iiint_0^1	\iiint_0^1	\iiiint	quadruple integral operator
U+0 2 A0D		\int_0^1	\int_0^1					\intbar	finite part integral
U+0 2 A0E		\int_0^1						\intBar	integral with double stroke
U+0 2 A0F		\int_0^1						\fint	integral average with slash
U+0 2 A10		\oint_0^1						\cirfnint	circulation function
U+02A11	\int_0^1	\int_0^1	\int_0^1	\int_0^1	\int_0^1		\int_0^1	\awint	anticlockwise integration
U+02A12		\int_0^1						\rppolint	line integration with rectangular path around pole
U+02A13		\int_0^1						\scpolint	line integration with semicircu- lar path around pole
U+0 2 A14		\int_0^1						\npolint	line integration not including the pole
U+0 2 A15		\oint_0^1						\pointint	integral around a point operator
u+0 2 A16		\int_0^1						\sqint	quaternion integral operator
U+02A17		$ \oint_0^1 $						\intlarhk	integral with leftwards arrow with hook

USV	M	S	Е	P	D	L	G	Macro	Description
U+02A18		\int_0^1						\intx	integral with times sign
U+0 2 A19		\int_0^1						\intcap	integral with intersection
U+02A1A		${\displaystyle \int \!$						\intcup	integral with union
U+02A1B		$\overline{\int_0^1}$						\upint	integral with overbar
U+02A1C		$\underline{\int_{\Theta}^{1}}$						\lowint	integral with underbar
U+0 2 A1D		\bigvee_{0}^{1}	1 × 0					\Join	join
U+02A1E		\bigvee_{0}^{1}						\bigtriangleleft	large left triangle operator
U+02A1F		1 9 0						\zcmp	z notation schema composition
U+02A20		1 >>> 0						\zpipe	z notation schema piping
U+02A21		1						\zproject	z notation schema projection
U+02AFC								\biginterleave	large triple vertical bar operator
U+02AFF								\bigtalloblong	n-ary white vertical bar
U+1EEFO		1 0						\arabicmaj	arabic mathematical operator meem with hah with tatweel
U+1EEF1		1 0						\arabichad	arabic mathematical operator hah with dal

12 Binary relations, \mathbin

USV	M	S	Е	Р	D	L	G	Macro	Description
U+0002B	+	+	+	+	+	+	+	\mathplus	plus sign b:

USV	M	S	Е	Р	D	L	G	Macro	Description
U+000B1	±	±	±	±	±	±	±	\pm (p)	plus-or-minus sign
и+ооов7								$\verb \cdotp ^{(p)}$	/centerdot b: middle dot
U+000D7	×	×	×	×	×	×	×	extstyle ext	multiply sign
u+000F7	÷	÷	÷	÷	÷	÷	÷	$\operatorname{ extsf{/}div}^{(p)}$	divide sign
U+02020	†	†	†	†	†	†	†	$\texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ \ } $	dagger relation
U+02021	‡	‡	‡	‡	‡	‡	‡	$\verb \ddagger ^{(p)}$	double dagger relation
U+02022	•	•	•	•	•	•	•	\smblkcircle	/bullet b: round bullet, filled
U+0 2 040								\tieconcat	character tie, z notation sequence concatenation
U+02044	/	/	/	/	/	/	/	\fracslash	fraction slash
U+0214B		38	8				28	\upand	turned ampersand
U+02212	_	_	_	-	_	-	-	\minus	minus sign
U+02213	Ŧ	Ŧ	Ŧ	Ŧ	Ŧ	Ŧ	Ŧ	$\mathbf{mp}^{(p)}$	minus-or-plus sign
U+02214	÷	÷	÷	÷	÷	÷	÷	$\verb \dotplus ^{(a)}$	plus sign, dot above
U+02215	/	/	/	/	/	/	/	\divslash	division slash
U+0 22 16	\	\	\	\	\	\	\	$\verb \smallsetminus ^{(a)}$	small set minus (cf. reverse solidus)
U+02217	*	*	*	*	*	*	*	${f ar ast}^{(p)}$	centered asterisk
U+02218	0	0	0	0	0	0	0	\vysmwhtcircle	composite function (small circle)
U+0 22 19	•	•	•	•	•	•	•	\vysmblkcircle	bullet operator
U+02227	٨	٨	٨	٨	٨	٨	٨	$\mathbf{\backslash wedge}^{(\mathrm{p})}$	/wedge /land b: logical and
U+02228	V	٧	V	V	٧	٧	٧	$\mathbf{vee}^{(p)}$	/vee /lor b: logical or
U+02229	\cap	Λ	\cap	\cap	\cap	Λ	Λ	$ar{cap}^{(p)}$	intersection
U+0222A	U	U	U	U	U	U	U	$\mathbf{cup}^{(p)}$	union or logical sum

USV	M	S	Е	Р	D	L	G	Macro	Description
U+02238	·	·	÷	·	·	÷	÷	\dotminus	minus sign, dot above
U+0223E	\sim	2	8	2	2	∞	~	\invlazys	most positive [inverted lazy s]
U+0 224 0	}	ζ	}	?	}	}	}	$\mathbf{vr}^{(p)}$	wreath product
U+0 22 8C	⊌	⊌	•	⊌	⊌	⊌	⊌	\cupleftarrow	multiset
U+0228D	U	⊍	⊍	U	U	⊌	⊌	\cupdot	union, with dot
U+0228E	₩	₩	₩	₩	₩	⊎	⊎	$\mathbf{uplus}^{(p)}$	plus sign in union
U+02293	П	П	П	П	П	П	П	$\mathbf{\backslash sqcap}^{(p)}$	square intersection
U+02294	Ш	Ц	Ц	Ц	Ц	Ш	Ц	$\sqcup^{(p)}$	square union
U+02295	\oplus	\oplus	⊕	\oplus	⊕	\oplus	⊕	$ordownoording^{(p)}$	plus sign in circle
U+0 22 96	\ominus	Θ	Θ	Θ	Θ	Θ	Θ	$\mathbf{ullet}^{(p)}$	minus sign in circle
U+02297	\otimes	\otimes	8	\otimes	8	\otimes	8	$\mathtt{ordonomedsymbol{o}times}^{(\mathrm{p})}$	multiply sign in circle
U+0 22 98	0	0	0	0	0	0	0	$\mathbf{\backslash oslash}^{(p)}$	solidus in circle
U+0 22 99	\odot	0	•	0	0	0	0	$lodot^{(p)}$	middle dot in circle
U+0229A	0	0	0	0	0	0	©	\circledcirc(a)	small circle in circle
U+0 22 9B	*	*	*	*	*	⊛	*	$\circledast^{(a)}$	asterisk in circle
U+0 22 9C					(3)		\Rightarrow	\circledequal	equal in circle
U+0 22 9D	\ominus	Θ	Θ	Θ	Θ	Θ	Θ	$\verb \circleddash ^{(a)}$	hyphen in circle
U+0229E	\blacksquare	\blacksquare	H	⊞	Ħ	\blacksquare	⊞	$\verb \boxplus ^{(a)}$	plus sign in box
U+0229F			В	В	В		В	$\verb \boxminus ^{(a)}$	minus sign in box
U+022A0	\boxtimes	\boxtimes	×		×	\boxtimes	X	$\verb \boxtimes ^{(a)}$	multiply sign in box
U+022A1	·	·	•	•	⊡	•	⊡	\boxdot (a)	/dotsquare /boxdot b: small dot in box
U+022BA	Т	T	Т	Т	Т		Т	$\label{linear} \$	intercal

USV	M	S	Е	Р	D	L	G	Macro	Description
U+022BB	V	V	V	V	V		¥	\veebar ^(a)	logical or, bar below (large vee); exclusive disjunction
U+022BC	$\overline{\wedge}$	⊼	⊼	<u></u>	⊼		⊼	$\verb \barwedge ^{(a)}$	bar, wedge (large wedge)
U+022BD	$\overline{\lor}$	$\overline{\vee}$	\overline{V}	$\overline{\lor}$	⊽		⊽	\barvee	bar, vee (large vee)
U+0 22 C4	\$	\$	♦	♦	\$		⋄	\smwhtdiamond	white diamond
U+022C5	٠			٠	٠			$\cdot^{(p)}$	small middle dot
U+0 22 C6	*	*	*	*	*	*	*	$\operatorname{f ar star}^{(p)}$	small star, filled, low
U+022C7	*	*	*	*	*		*	$\verb \divideontimes ^{(a)}$	division on times
U+0 22 C9	K	×	×	×	K	×	K	$\label{limes} \$	times sign, left closed
U+0 22 CA	×	×	×	×	×	×	×	$\verb \rtimes ^{(a)}$	times sign, right closed
U+022CB	\rightarrow	\succ	λ	λ	λ		λ	$\verb leftthreetimes (a)$	left semidirect product
U+0 22 CC	~	~	~	*	٨		٨	$\verb \rightthreetimes ^{(a)}$	right semidirect product
U+022CE	Υ	Υ	Υ	Υ	Υ	٧	Υ	\curlyvee ^(a)	curly logical or
U+022CF	人	٨	٨	Д	٨	٨	人	\curlywedge ^(a)	curly logical and
U+022D2		⋒	M		⋒		M	$\operatorname{\mathtt{Cap}}^{(a)}$	/cap /doublecap b: double intersection
U+022D3	U	W	W	U	U		U	\Cup ^(a)	/cup /doublecup b: double union
U+02305	^	⊼	^	^	^			\varbarwedge	/barwedge b: logical and, bar above [projective (bar over small wedge)]
U+02306	<u>~</u>	₹	⊼	<u>~</u>	₹			\vardoublebarwedge	/doublebarwedge b: logical and, double bar above [per- spective (double bar over small wedge)]
U+0233D		Φ						\obar	circle with vertical bar
U+025B3	\triangle	\triangle	Δ	Δ	Δ	Δ	Δ	$\verb \bigtriangleup ^{(p)}$	big up triangle, open
u+025B7	\triangleright	\triangleright	\triangleright	\triangleright	\triangleright	\triangleright	\triangleright	$\verb \triangleright ^{(p)}$	(large) right triangle, open; z notation range restriction

USV	M	S	Е	Р	D	L	G	Macro	Description
U+025C1	\triangleleft	◁	◁	◁	⊲	◁	◁	$\verb \triangleleft ^{(p)}$	(large) left triangle, open; z notation domain restriction
U+025СВ	0	0	0	0		0	0	\mdlgwhtcircle	medium large circle
U+025ЕВ								\boxbar	vertical bar in box
U+0 2 7C7		٧						\veedot	or with dot inside
U+027D1		A						\wedgedot	and with dot
U+027E0	\Diamond	\Diamond	\Diamond	♦	♦			\lozengeminus	lozenge divided by horizontal rule
U+027E1		\$	♦	\$	\$			\concavediamond	white concave-sided diamond
U+027E2	*	\$	♦	*	*			\concavediamondtickleft	white concave-sided diamond with leftwards tick
U+027E3		\$	\$		*			\concavediamondtickright	white concave-sided diamond with rightwards tick
u+027E4								\whitesquaretickleft	white square with leftwards tick
U+027E5		□						\whitesquaretickright	white square with rightwards tick
u+029B5		\ominus						\circlehbar	circle with horizontal bar
и+029в6		Φ						\circledvert	circled vertical bar
и+029в7		(1)						\circledparallel	circled parallel
и+029в8		\Diamond						\obslash	circled reverse solidus
и+029в9		(\operp	circled perpendicular
U+0 2 9C0		\otimes						\olessthan	circled less-than
U+0 2 9C1		⊗						\ogreaterthan	circled greater-than
u+0 2 9c4								\boxdiag	squared rising diagonal slash
u+029C5								\boxbslash	squared falling diagonal slash
u+029c6		*						\boxast	squared asterisk

usv	M	S	E	Р	D	L	G	Macro	Description
u+029C7		0						\boxcircle	squared small circle
u+029c8								\boxbox	squared square
U+0 2 9CD		\triangle						\triangleserifs	triangle with serifs at bottom
U+029D6		X						\hourglass	white hourglass
U+029D7		X						\blackhourglass	black hourglass
U+029E2		ш						\shuffle	shuffle product
и+029ев		•	♦					\mdlgblklozenge	black lozenge
u+029F5		\	\			\	\	$\verb \setminus ^{(p)}$	reverse solidus operator
u+029F6		7				7		\dsol	solidus with overbar
U+029F7		+				+		\rsolbar	reverse solidus with horizontal stroke
u+0 2 9fA		#						\doubleplus	double plus
и+029ғв		#						\tripleplus	triple plus
u+0 2 9fe		+						\tplus	tiny
u+0 2 9ff		_						\tminus	miny
U+02A22		÷						\ringplus	plus sign with small circle above
U+02A23		Î						\plushat	plus sign with circumflex accent above
U+02A24		Ŧ						\simplus	plus sign with tilde above
U+02A25		÷						\plusdot	plus sign with dot below
U+02A26		Ţ						\plussim	plus sign with tilde below
U+02A27		+2						\plussubtwo	plus sign with subscript two
U+02A28		+						\plustrif	plus sign with black triangle
U+02A29		<u>,</u>						\commaminus	minus sign with comma above

USV	M	S	E	Р	D	L	G	Macro	Description
U+02A2A		÷						\minusdot	minus sign with dot below
U+02A2B		<u>:-</u>						\minusfdots	minus sign with falling dots
U+02A2C		. ·						\minusrdots	minus sign with rising dots
U+02A2D		0						\opluslhrim	plus sign in left half circle
U+02A2E		Ð						\oplusrhrim	plus sign in right half circle
U+02A2F	×	×	×	×	×		×	\vectimes	vector or cross product
U+02A30		×						\dottimes	multiplication sign with dot above
U+02A31		×						\timesbar	multiplication sign with underbar
U+02A32		×						\btimes	semidirect product with bottom closed
U+02A33		*						\smashtimes	smash product
U+02A34		(×						\otimeslhrim	multiplication sign in left half circle
U+02A35		×						\otimesrhrim	multiplication sign in right half circle
u+02a36		Ô				ô		\otimeshat	circled multiplication sign with circumflex accent
U+02A37		8						\Otimes	multiplication sign in double circle
U+02A38		(÷)						\odiv	circled division sign
U+02A39		A						\triangleplus	plus sign in triangle
U+02A3A		Δ						\triangleminus	minus sign in triangle
U+02A3B		\triangle						\triangletimes	multiplication sign in triangle
U+02A3C		_						\intprod	interior product
U+02A3D		L						\intprodr	righthand interior product

USV	M	S	Е	P	D	L	G	Macro	Description
U+02A3E		9				9		\fcmp	z notation relational composi- tion
U+02A3F	П	Ш	Ш	Ш	Ш	П	П	$\mathtt{ar{a}malg}^{(p)}$	amalgamation or coproduct
U+02A40		Θ						\capdot	intersection with dot
U+02A41		⊌						\uminus	union with minus sign
U+02A42		Ū						\barcup	union with overbar
U+02A43		Ō						\barcap	intersection with overbar
U+02A44		Ω						\capwedge	intersection with logical and
U+02A45		$oldsymbol{oldsymbol{eta}}$						\cupvee	union with logical or
U+02A46		O						\cupovercap	union above intersection
U+02A47		Û						\capovercup	intersection above union
U+02A48		Ü						\cupbarcap	union above bar above intersection
u+02A49		0						\capbarcup	intersection above bar above union
U+02A4A		ω						\twocups	union beside and joined with union
U+02A4B		Μ						\twocaps	intersection beside and joined with intersection
U+0 2 A4C		U						\closedvarcup	closed union with serifs
U+02A4D		Ω						\closedvarcap	closed intersection with serifs
U+02A4E		П						\Sqcap	double square intersection
U+02A4F		Ш						\Sqcup	double square union
U+02A50		⊌						\closedvarcupsmashprod	closed union with serifs and smash product
U+02A51		Ķ						\wedgeodot	logical and with dot above
U+02A52		Ÿ						\veeodot	logical or with dot above

USV	M	S	Е	P	D	L	G	Macro	Description
U+02A53		A						\Wedge	double logical and
U+02A54		٧						\Vee	double logical or
U+02A55		M						\wedgeonwedge	two intersecting logical and
U+02A56		W						\veeonvee	two intersecting logical or
U+02A57		V						\bigslopedvee	sloping large or
U+02A58		1						\bigslopedwedge	sloping large and
U+02A5A		1						\wedgemidvert	logical and with middle stem
U+02A5B		Ψ						\veemidvert	logical or with middle stem
U+02A5C		A						\midbarwedge	ogical and with horizontal dash
U+02A5D		¥						\midbarvee	logical or with horizontal dash
U+02A5E		⊼	⊼					$\verb \doublebarwedge ^{(a)}$	logical and with double overbar
U+02A5F		Δ	Δ					\wedgebar	logical and with underbar
U+0 2 A60		≙						\wedgedoublebar	logical and with double underbar
U+02A61		<u>v</u>						\varveebar	small vee with underbar
U+02A62		$\overline{\nabla}$						\doublebarvee	logical or with double overbar
U+02A63		$\underline{\vee}$						\veedoublebar	logical or with double underbar
u+02a64		\triangleleft						\dsub	z notation domain antirestriction
u+02a65		\triangleright						\rsub	z notation range antirestriction
U+02A71		₹						\eqqplus	equals sign above plus sign
U+02A72		±						\pluseqq	plus sign above equals sign
U+02AF4		Ш						\interleave	triple vertical bar binary relation

USV	M	S	Е	P	D	L	G	Macro	Description
U+02AF5		#						\nhVvert	triple vertical bar with horizon- tal stroke
u+02af6		÷						\threedotcolon	triple colon operator
U+02AFB		///						\trslash	triple solidus binary relation
U+02AFD		//						\sslash	double solidus operator
U+02AFE		0						\talloblong	white vertical bar

13 Ordinary symbols, \mathord

USV	M	S	Е	P	D	L	G	Macro	Description
U+00023	#	#	#	#	#	#	#	\mathoctothorpe	number sign
U+000 2 4	\$	\$	\$	\$	\$	\$	\$	\mathdollar	dollar sign
U+00025	%	%	%	%	%	%	%	\mathpercent	percent sign
U+000 2 6	&	&	&	&	&	&	&	\mathampersand	ampersand
U+000 2 E								\mathperiod	full stop, period
U+000 2 F	/	/	/	/	/	/	/	\mathslash	solidus
U+0003F	?	?	?	?	?	?	;	\mathquestion	question mark
U+00040	0	@	@	@	@	@	@	\mathatsign	commercial at
u+0005c	\	\	\	\	\	\	\	$\verb \backslash ^{(p)}$	reverse solidus
U+000A3	£	£	£	£	£	£	£	\mathsterling	pound sign
U+000A5	¥	¥	¥	¥	¥	¥	¥	\mathyen	yen sign
U+000A7	8	§	\$	§	§	§	\$	\mathsection	section symbol
U+000AC	\neg	7	7	\neg	¬	\neg	\neg	${\tt \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	/neg /lnot not sign
и+000в6	¶	P	¶	${\mathbb P}$	¶	\P	•	\mathparagraph	paragraph symbol
u+001B5		Z	Z			Z		\Zbar	$\begin{array}{c} \text{impedance (latin capital letter z} \\ \text{with stroke)} \end{array}$
u+003F6		Э	Э			Э		\upbackepsilon	greek reversed lunate epsilon symbol
U+02015	_	_	_	_	_	_	_	\horizbar	horizontal bar
U+02017	=	=	=	=	=	=	=	\twolowline	double low line (spacing)
U+02025								\enleadertwodots	double baseline dot (en leader)
U+02026								\unicodeellipsis	ellipsis (horizontal)

USV	M	S	E	P	D	L	G	Macro	Description
U+02032	/	,	/	1	,	,	,	$\operatorname{\mathtt{f vprime}}^{(p)}$	prime or minute, not super- scripted
U+02033	"	"		"	"	"	"	\dprime	double prime or second, not superscripted
U+02034	///	m		111	<i>III</i>	m	<i>III</i>	\trprime	triple prime (not superscripted)
U+0 2 035	\	`	١	1	V	`	V	$\verb \backprime ^{(a)}$	reverse prime, not super- scripted
u+02036	**	"		"	**	**	"	\backdprime	double reverse prime, not su- perscripted
U+02037	'''	m		w	w	***	m	\backtrprime	triple reverse prime, not super- scripted
u+02038		^						\caretinsert	caret (insertion mark)
U+0 2 03C		!!				!!		\Exclam	double exclamation mark
U+02043		-						\hyphenbullet	rectangle, filled (hyphen bullet)
u+0 2 047		??				??		\Question	double question mark
u+02057	////	m		<i>IIII</i>	,,,,	m	ıııı	\qprime	quadruple prime, not super- scripted
U+0 2 0AC	€	€	€	€	€	€	€	\euro	euro sign
U+020DD	\bigcirc	0	0	0	0		0	\enclosecircle	combining enclosing circle
U+020DE								\enclosesquare	combining enclosing square
U+020DF	\Diamond	\Diamond	\Diamond	\Diamond	\Diamond		\Diamond	\enclosediamond	combining enclosing diamond
U+0 2 0E4	\triangle	\triangle	\triangle	\triangle	Δ		\triangle	\enclosetriangle	combining enclosing upward pointing triangle
U+02107	3	3	3	3	3		3	\Eulerconst	euler constant
U+0210E	h	h	h	h	h	h	h	\Planckconst	planck constant
U+02127	Ω	Ω	Ω	Ω	Ω	Ω	Ω	\mho	conductance
U+02132		Ь	Е					$ackslash extsf{Finv}^{(a)}$	turned capital f

USV	M	S	E	Р	D	L	G	Macro	Description
U+0213C	ण	III	II	π	Ш		π	\Bbbpi	double-struck small pi
U+02141		Э	Э					\Game ^(a)	turned sans-serif capital g
U+02142		٦						\sansLturned	turned sans-serif capital l
U+02143		L						\sansLmirrored	reversed sans-serif capital l
U+0 2 144		Х						\Yup	turned sans-serif capital y
U+02145	D	D	D	D	D		D	\mitBbbD	double-struck italic capital d
u+02146	d	d	d	d	d		d	\mitBbbd	double-struck italic small d
U+02147	e	e	e	æ	e		e	\mitBbbe	double-struck italic small e
u+02148	Î	Ĩ	Ĩ	<u>ı</u>	i		i	\mitBbbi	double-struck italic small i
U+0 2 149	j	j	j	j	j		j	\mitBbbj	double-struck italic small j
U+0214A		₽						\PropertyLine	property line
U+021A8		1				‡	‡	\updownarrowbar	up down arrow with base (perpendicular)
U+021B4	\supset	\supset	→	⊋	⋾	\supset	ļ	\linefeed	rightwards arrow with corner downwards
U+021B5	4	4	٦	↵	4	\downarrow	←	\carriagereturn	downwards arrow with corner leftward = carriage return
U+021B8		↸				<u> </u>	↸	\barovernorthwestarrow	north west arrow to long bar
U+021B9		₩				⇤	⊭	\barleftarrowrightarrowbar	leftwards arrow to bar over rightwards arrow to bar
U+021BA	Q	Q	Q	Q	Œ	J	J	\acwopencirclearrow	anticlockwise open circle arrow
U+021BB	Q	Q	Ö	Ö	U	U	U	\cwopencirclearrow	clockwise open circle arrow
U+021DE		‡				‡	‡	\nHuparrow	upwards arrow with double stroke
U+021DF		‡				#	#	\nHdownarrow	downwards arrow with double stroke
U+021E0		<				←		\leftdasharrow	leftwards dashed arrow

USV	M	S	Е	P	D	L	G	Macro	Description
U+021E1		1	1			1	1	\updasharrow	upwards dashed arrow
U+021E2		>	>			>	>	\rightdasharrow	rightwards dashed arrow
U+021E3		↓	į.			↓		\downdasharrow	downwards dashed arrow
U+021E6	⇔	\(\rightarrow	⇔	\Leftrightarrow	(\	(\leftwhitearrow	leftwards white arrow
U+021E7	Û	仓	Û	Î	Î	Û	Û	\upwhitearrow	upwards white arrow
U+021E8	\Rightarrow	\Rightarrow	⇔	\Rightarrow	\Rightarrow	\Rightarrow	\Rightarrow	\rightwhitearrow	rightwards white arrow
U+0 2 1E9	Û	Û	Û	$\hat{\mathbb{I}}$	Û	Û	Û	\downwhitearrow	downwards white arrow
U+021EA		슣				Ŷ	Ŷ	\whitearrowupfrombar	upwards white arrow from bar
U+0 22 00	\forall	A	\forall	\forall	A	A	\forall	$\formula [p]$	for all
U+0 22 01	С	C	С	С	С	С	С	$\verb \complement ^{(a)}$	complement sign
U+02203	3	3	3	3	3	3	3	$\texttt{\exists}^{(p)}$	at least one exists
U+02204	∄	∄	∄	∄	∄	∄	∄	$\nexists(a)$	negated exists
U+02205	Ø	Ø	Ø	Ø	Ø	Ø	Ø	$\mathbf{\backslash varnothing}^{(a)}$	circle, slash
U+02206	Δ	Δ	Δ	Δ	Δ	Δ	Δ	\increment	laplacian (delta; nabla^2)
U+0220E	•	•	•				•	\QED	end of proof
U+0221A		$\sqrt{}$		\checkmark			√	$\mathbf{surd}^{(p)}$	radical
U+0221E	∞	∞	∞	∞	∞	∞	∞	$\mathbf{\hat{y}}^{(p)}$	infinity
U+0221F	L	L	L	L	L	L	L	\rightangle	right (90 degree) angle
U+0 222 0	_	_	_	_	_	_	_	$\aggle^{(p)}$	angle
U+0 2221	4	4	∡	4	4		¥	$\verb \measuredangle ^{(a)}$	angle-measured
U+02222	∢	4	⋖	∢	∢	∢	∢	$\verb \sphericalangle ^{(a)}$	angle-spherical
U+02234	A	<i>:</i> .	<i>:</i> .	::	A		A	$\verb \therefore ^{(a)}$	therefore

usv	M	S	Е	Р	D	L	G	Macro	Description
U+02235	٧		:	÷	٠	Ÿ	٧	\because ^(a)	because
U+0223F	\sim	~	~	\sim	~	\sim	~	\sinewave	sine wave
U+022A4	Т	Т	Т	Т	Т	Т	Т	$ ag{top}^{(p)}$	top
u+022A5	Τ	Τ	Τ	Τ	Τ	Τ	Τ	$ackslash \mathbf{bot}^{(p)}$	bottom
u+0 22 B9	+	+	+	+	+		*	\hermitmatrix	hermitian conjugate matrix
U+022BE	4	₽	F	4	4		Ь	\measuredrightangle	right angle-measured [with arc]
U+022BF		Δ	Δ	⊿	⊿		⊿	\varlrtriangle	right triangle
U+022EF								\unicodecdots	three dots, centered
U+02300	Ø	Ø	Ø	Ø	Ø	Ø	Ø	\diameter	diameter sign
U+02302		\triangle						\house	house
U+0 23 10	_	Г	г	_	_	_	_	\invnot	reverse not
U+02311		п						\sqlozenge	square lozenge
U+02312		\sim						\profline	profile of a line
U+02313		Δ						\profsurf	profile of a surface
U+02317		#						\viewdata	viewdata square
U+02319	_	L	L	_	<u></u>		L	\turnednot	turned not sign
U+02320	ſ	ſ	ſ	ſ	ſ	ſ		\inttop	top half integral
U+02321	J	J	J	J	J	J		\intbottom	bottom half integral
U+0232C		0						\varhexagonlrbonds	six carbon ring, corner down, double bonds lower right etc
u+02332		⊳						\conictaper	conical taper
u+02336		I						\topbot	top and bottom

USV	M	S	E	Р	D	L	G	Macro	Description
U+02340		+						\APLnotbackslash	apl functional symbol backslash bar
U+02353								\APLboxupcaret	boxed up caret
U+0 2 370		?						\APLboxquestion	boxed question mark
u+0237C		<u></u> ≱_						\rangledownzigzagarrow	right angle with downwards zigzag arrow
U+02394		\bigcirc						\hexagon	horizontal benzene ring [hexagon flat open]
U+0239в	(((ſ	(\lparenuend	left parenthesis upper hook
u+0 23 9C	ı	I	1	1	i.	I	1	\lparenextender	left parenthesis extension
u+0 23 9D	(Ţ		(Ţ	l		\lparenlend	left parenthesis lower hook
U+0239E))))))		\rparenuend	right parenthesis upper hook
u+0239F	1	I	ı	ı	1		1	\rparenextender	right parenthesis extension
U+023A0	J	J	J	J	J	J		\rparenlend	right parenthesis lower hook
U+023A1	Γ	ſ		ſ	Γ	ſ		\lbrackuend	left square bracket upper corner
U+023A2	I	1	I	I	I	I		\lbrackextender	left square bracket extension
U+023A3	L	l		L	L	L		\lbracklend	left square bracket lower corner
U+023A4	1	1]	1	1	1		\rbrackuend	right square bracket upper corner
U+023A5		1	I	1	1	I	1	\rbrackextender	right square bracket extension

USV	M	S	Е	P	D	L	G	Macro	Description
u+023A6]	J		J	J			\rbracklend	right square bracket lower corner
u+023A7	ſ	ſ	ſ	ſ	ſ	ſ		\lbraceuend	left curly bracket upper hook
u+023a8	{	{	{	{	{	{		\lbracemid	left curly bracket middle piece
U+0 2 3A9	ţ	Į	Į	ţ	ι	Į		\lbracelend	left curly bracket lower hook
U+023AA	1	I		1	1	I	1	\vbraceextender	curly bracket extension
u+023ab))))	١)		\rbraceuend	right curly bracket upper hook
U+0 2 3AC	}	}	}	}	}	}		\rbracemid	right curly bracket middle piece
U+023AD	J	J	J	J	J	J	J	\rbracelend	right curly bracket lower hook
U+023AE		1		1	1	1		\intextender	integral extension
U+0 2 3AF		-	-			_		\harrowextender	horizontal line extension (used to extend arrows)
U+023B2	∇	7	∇	∇	∇			\sumtop	summation top
U+023B3	L	L	_	_	_			\sumbottom	summation bottom
U+023B6		Η						\bbrktbrk	bottom square bracket over top square bracket
U+023B7	\	1	V	١	1	\bigvee		\sqrtbottom	radical symbol bottom
U+023B8								\lvboxline	left vertical box line
U+023B9								\rvboxline	right vertical box line

usv	M	S	Е	Р	D	L	G	Macro	Description
U+023CE		Ą						\varcarriagereturn	return symbol
U+0 2 3E0	^			^	^			\obrbrak	top tortoise shell bracket (mathematical use)
U+0 2 3E1	V))	V)	\ubrbrak	bottom tortoise shell bracket (mathematical use)
U+023E2								\trapezium	white trapezium
U+023E3		0						\benzenr	benzene ring with circle
U+0 2 3E4		_						\strns	straightness
U+023E5								\fltns	flatness
U+0 2 3E6		~						\accurrent	ac current
U+023E7		*						\elinters	electrical intersection
U+02422	ъ	ħ	ħ	b	ð			\blanksymbol	blank symbol
U+02423	Ш	1	J	u	ш	u		\mathvisiblespace	open box
u+02506								\bdtriplevdash	doubly broken vert
u+02580								\blockuphalf	upper half block
u+02584		-						\blocklowhalf	lower half block
u+02588	•							\blockfull	full block
u+0258c								\blocklefthalf	left half block
u+0 2 590								\blockrighthalf	right half block
U+0 2 591								\blockqtrshaded	25% shaded block
U+02592								\blockhalfshaded	50% shaded block
u+02593					88			\blockthreeqtrshaded	75% shaded block
U+0 2 5A0						٠	•	\mdlgblksquare	square, filled
U+025A1								\mdlgwhtsquare	square, open

USV	M	S	Е	P	D	L	G	Macro	Description
U+025A2		0						\squoval	white square with rounded corners
U+025A3								\blackinwhitesquare	white square containing black small square
U+025A4								\squarehfill	square, horizontal rule filled
U+025A5								\squarevfill	square, vertical rule filled
u+025A6								\squarehvfill	square with orthogonal crosshatch fill
U+025A7								\squarenwsefill	square, nw-to-se rule filled
u+025A8								\squareneswfill	square, ne-to-sw rule filled
U+025A9								\squarecrossfill	square with diagonal crosshatch fill
U+025AA	٠	•	٠	•	•		•	\smblksquare	/blacksquare - sq bullet, filled
U+025AB			0	0			0	\smwhtsquare	white small square
U+025AC	-	-	-	-	-		-	\hrectangleblack	black rectangle
U+025AD				0			0	\hrectangle	horizontal rectangle, open
U+025AE		٠					٠	\vrectangleblack	black vertical rectangle
U+025AF							0	\vrectangle	rectangle, white (vertical)
U+025B0		_						\parallelogramblack	black parallelogram
U+025B1								\parallelogram	parallelogram, open
U+025B2			A	A	A	A	A	\bigblacktriangleup	black up-pointing triangle
U+025B4		A	A					$\verb \blacktriangle ^{(a)}$	up triangle, filled
u+025в6			•	•	•	•	•	$\verb \blacktriangleright ^{(a)}$	(large) right triangle, filled
u+025в8		•	•					\smallblacktriangleright	right triangle, filled
U+025B9		\triangleright	\triangleright					\smalltriangleright	right triangle, open

USV	M	S	E	P	D	L	G	Macro	Description
U+025BA					>			\blackpointerright	black right-pointing pointer
u+025вв		\triangleright						\whitepointerright	white right-pointing pointer
U+025BC	•	•	•	•	•	•	•	\bigblacktriangledown	big down triangle, filled
U+025BD	∇	∇	∇	∇	∇	∇	∇	$\verb \bigtriangledown ^{(p)}$	big down triangle, open
u+025ве		•	•					$\verb \blacktriangledown ^{(a)}$	down triangle, filled
U+0 2 5BF		∇	∇					$\verb \triangledown ^{(a)}$	down triangle, open
u+0 2 5c0	•	•	•	•	•	4	•	$\verb \blacktriangleleft ^{(a)}$	(large) left triangle, filled
U+025C2		•	•					\smallblacktriangleleft	left triangle, filled
U+025C3		٥	⊲					\smalltriangleleft	left triangle, open
U+025C4		•			•			\blackpointerleft	black left-pointing pointer
U+025C5		⊲						\whitepointerleft	white left-pointing pointer
u+025c6		•	♦			•	•	\mdlgblkdiamond	black diamond
u+025C7		\Diamond	\Diamond			\Diamond	\Diamond	\mdlgwhtdiamond	white diamond; diamond, open
u+025c8							♦	\blackinwhitediamond	white diamond containing black small diamond
u+0 2 5c9						•		\fisheye	fisheye
U+025CA	\Diamond	\Diamond	\Diamond	◊	♦	♦	\Diamond	\mdlgwhtlozenge	lozenge or total mark
U+025CC		0						\dottedcircle	dotted circle
U+025CD								\circlevertfill	circle with vertical fill
U+025CE		0				0	0	\bullseye	bullseye
U+025CF	•	•	•	•	•	•	•	\mdlgblkcircle	circle, filled
U+025D0		•				•	•	\circlelefthalfblack	circle, filled left half [harvey ball]
U+025D1		•				•	•	\circlerighthalfblack	circle, filled right half

USV	M	S	Е	P	D	L	G	Macro	Description
U+025D2		•				•	•	\circlebottomhalfblack	circle, filled bottom half
U+025D3		•				•	•	\circletophalfblack	circle, filled top half
U+025D4		•				•	•	\circleurquadblack	circle with upper right quadrant black
U+025D5		•				•	•	\blackcircleulquadwhite	circle with all but upper left quadrant black
U+025D6		•				•	•	\blacklefthalfcircle	left half black circle
U+025D7						•	•	\blackrighthalfcircle	right half black circle
U+025D8								\inversebullet	inverse bullet
U+025D9		0						\inversewhitecircle	inverse white circle
U+025DA								\invwhiteupperhalfcircle	upper half inverse white circle
U+025DB		$oldsymbol{ol}}}}}}}}}}}}}}}}}}$						\invwhitelowerhalfcircle	lower half inverse white circle
U+025DC		(\ularc	upper left quadrant circular arc
U+025DD		`						\urarc	upper right quadrant circular arc
U+025DE		J						\lrarc	lower right quadrant circular arc
U+025DF		(\llarc	lower left quadrant circular arc
U+025E0		\cap						\topsemicircle	upper half circle
U+025E1		\cup						\botsemicircle	lower half circle
U+025E2		4						\lrblacktriangle	lower right triangle, filled
U+025E3		k						\llblacktriangle	lower left triangle, filled
U+025E4								\ulblacktriangle	upper left triangle, filled
U+025E5		•						\urblacktriangle	upper right triangle, filled
u+025E6	0	0	0	0	0	0	0	\smwhtcircle	white bullet

USV	M	S	Е	Р	D	L	G	Macro	Description
U+025E7								\squareleftblack	square, filled left half
U+025E8								\squarerightblack	square, filled right half
U+025E9								\squareulblack	square, filled top left corner
U+025EA								\squarelrblack	square, filled bottom right corner
U+025EC		\triangle						\trianglecdot	triangle with centered dot
U+025ED		lack					Δ	\triangleleftblack	up-pointing triangle with left half black
U+025EE		Δ					Λ	\trianglerightblack	up-pointing triangle with right half black
U+0 2 5EF	\bigcirc	\bigcirc	0	0			0	\lgwhtcircle	large circle
U+0 2 5F0								\squareulquad	white square with upper left quadrant
U+0 2 5F1		Б						\squarellquad	white square with lower left quadrant
U+025F2								\squarelrquad	white square with lower right quadrant
U+025F3		<u> </u>						\squareurquad	white square with upper right quadrant
U+0 2 5F4		0						\circleulquad	white circle with upper left quadrant
U+025F5		0						\circlellquad	white circle with lower left quadrant
U+0 2 5F6		Ф						\circlelrquad	white circle with lower right quadrant
U+0 2 5F7		0						\circleurquad	white circle with upper right quadrant
U+025F8		7						\ultriangle	upper left triangle
U+025F9		4						\urtriangle	upper right triangle
U+025FA		ightharpoons						\lltriangle	lower left triangle

USV	M	S	E	P	D	L	G	Macro	Description
U+025FB								\mdwhtsquare	white medium square
U+025FC			٠					\mdblksquare	black medium square
U+025FD								\mdsmwhtsquare	white medium small square
U+025FE		•	٠					\mdsmblksquare	black medium small square
U+025FF		Δ						\lrtriangle	lower right triangle
u+02605		*	*			*	*	\bigstar ^(a)	star, filled
u+02606		☆					*	\bigwhitestar	star, open
u+02609		•				•		\astrosun	sun
U+02621		Z						\danger	dangerous bend (caution sign)
u+0263в		•				•		\blacksmiley	black smiling face
u+0263c		₩				ф		\sun	white sun with rays
u+0263D		\supset)		\rightmoon	first quarter moon
u+0263E		((\leftmoon	last quarter moon
u+0 2 640		Ф				Q		\female	venus, female
u+02642		ð				₫		\male	mars, male
u+0 2 660	^	•	^	•	•	^		$\verb \spadesuit ^{(p)}$	spades suit symbol
u+02661	\Diamond	\Diamond	\Diamond	\Diamond	\Diamond	\otimes		$\verb \heartsuit ^{(p)}$	heart suit symbol
u+02662	\Diamond	♦	\Diamond	\Diamond	♦	\Diamond		$\verb \diamondsuit ^{(p)}$	diamond suit symbol
U+02663	*	.	*	*	*	*		$\verb \clubsuit ^{(p)}$	club suit symbol
u+02664	\Diamond	\Diamond	\Diamond		۵	Ŷ		\varspadesuit	spade, white (card suit)
u+02665	•	•	•	•	•	•		\varheartsuit	filled heart (card suit)
u+02666	*	•	♦	•	•	•		\vardiamondsuit	filled diamond (card suit)

USV	M	S	E	P	D	L	G	Macro	Description
u+02667	දා	ф.	දා	c ³	&	æ		\varclubsuit	club, white (card suit)
u+02669		J				ا		\quarternote	music note (sung text sign)
u+0266a	"	•		1	1	>		\eighthnote	eighth note
u+0266в		J.				V		\twonotes	beamed eighth notes
u+0266d	þ	b	Ь	b	b	Ь		$\mathbf{\hat{h}}$	musical flat
u+0 2 66e	Ц	þ	Ц	4	4	Ħ		$\mathbf{natural}^{(p)}$	music natural
u+0266f	#	#	#	#	#	#		$\verb \sharp ^{(p)}$	musical sharp
u+0 2 67е		⊚					<u>@</u>	\acidfree	permanent paper sign
u+02680		•						\dicei	die face-1
u+02681		•.						\diceii	die face-2
u+02682		:						\diceiii	die face-3
u+02683		::						\diceiv	die face-4
u+02684		∷						\dicev	die face-5
u+02685		::						\dicevi	die face-6
u+02686		\odot						\circledrightdot	white circle with dot right
u+02687		\odot						\circledtwodots	white circle with two dots
u+02688		•						\blackcircledrightdot	black circle with white dot right
u+02689		•						\blackcircledtwodots	black circle with two white dots
u+026a5		₫				₫		\Hermaphrodite	male and female sign
u+026aa		0	0					\mdwhtcircle	medium white circle
u+026ab		•	•					\mdblkcircle	medium black circle
u+0 2 6ac		0	0			0		\mdsmwhtcircle	medium small white circle

USV	M	S	Е	Р	D	L	G	Macro	Description
u+026B2		Υ						\neuter	neuter
U+02713	✓	✓	✓	\checkmark	\checkmark			\checkmark	tick, check mark
U+0 272 0	¥	4	4	¥	4			\maltese	maltese cross
U+0272A		•						\circledstar	circled white star
u+02736		*						\varstar	six pointed black star
U+0 2 73D		*						\dingasterisk	heavy teardrop-spoked asterisk
u+0 2 79в		→						\draftingarrow	right arrow with bold head (drafting)
u+0 27 C0		Ľ						\threedangle	three dimensional angle
U+0 27 C1								\whiteinwhitetriangle	white triangle containing small white triangle
u+0 2 7C3		©						\subsetcirc	open subset
u+027C4		<u></u>						\supsetcirc	open superset
U+027D0		\Diamond						\diamondcdot	white diamond with centred dot
U+0292B		×						\rdiagovfdiag	rising diagonal crossing falling diagonal
U+0 292 C		X						\fdiagovrdiag	falling diagonal crossing rising diagonal
U+0 292 D		X						\seovnearrow	south east arrow crossing north east arrow
U+0 292 E		X						\neovsearrow	north east arrow crossing south east arrow
U+0 2 9 2 F		X						\fdiagovnearrow	falling diagonal crossing north east arrow
U+0 2 930		X						\rdiagovsearrow	rising diagonal crossing south east arrow
U+02931		X						\neovnwarrow	north east arrow crossing north west arrow

USV	M	S	E	P	D	L	G	Macro	Description
U+02932		X						\nwovnearrow	north west arrow crossing north east arrow
u+02934		♪	٤					\uprightcurvearrow	arrow pointing rightwards then curving upwards
U+02935		\rightarrow	\supset					\downrightcurvedarrow	arrow pointing rightwards then curving downwards
u+02981		•	•					\mdsmblkcircle	z notation spot
U+0 2 999		:						\fourvdots	dotted fence
u+0299a		***						\vzigzag	vertical zigzag line
u+0 2 99в		4						\measuredangleleft	measured angle opening left
u+0 2 99C		F						\rightanglesqr	right angle variant with square
U+0299D		₽						\rightanglemdot	measured right angle with dot
u+0299E		<u> </u>						\angles	angle with s inside
u+0299F		_						\angdnr	acute angle
u+0 2 9A0		>						\gtlpar	spherical angle opening left
u+029A1		₹						\sphericalangleup	spherical angle opening up
u+029A2		7						\turnangle	turned angle
u+029A3		7						\revangle	reversed angle
u+029A4		∠						\angleubar	angle with underbar
u+029A5		\geq						\revangleubar	reversed angle with underbar
u+029A6		_						\wideangledown	oblique angle opening up
U+029A7		_						\wideangleup	oblique angle opening down
u+029A8		Ճ						\measanglerutone	measured angle with open arm ending in arrow pointing up and right

USV	M	S	E	P	D	L	G	Macro	Description
U+029A9		*						\measanglelutonw	measured angle with open arm ending in arrow pointing up and left
u+0 29 AA		爻						\measanglerdtose	measured angle with open arm ending in arrow pointing down and right
U+029AB		¥						\measangleldtosw	measured angle with open arm ending in arrow pointing down and left
U+029AC		⋫						\measangleurtone	measured angle with open arm ending in arrow pointing right and up
u+0 29 AD		₹						\measangleultonw	measured angle with open arm ending in arrow pointing left and up
u+0 29 AE		Þ <u>s</u>						\measangledrtose	measured angle with open arm ending in arrow pointing right and down
u+0 29 AF		A						\measangledltosw	measured angle with open arm ending in arrow pointing left and down
U+0 2 9B0		Ø						\revemptyset	reversed empty set
U+029B1		Ø						\emptysetobar	empty set with overbar
u+029B2		Ø						\emptysetocirc	empty set with small circle above
u+029в3		Ø						\emptysetoarr	empty set with right arrow above
u+0 2 9в4		Ø						\emptysetoarrl	empty set with left arrow above
U+029BA		0						\obot	circle divided by horizontal bar and top half divided by vertical bar
u+029вв		Ø						\olcross	circle with superimposed x
u+029вс		Ø						\odotslashdot	circled anticlockwise-rotated division sign
U+029BD		Ф						\uparrowoncircle	up arrow through circle
u+0 2 9ве		0						\circledwhitebullet	circled white bullet

USV	M	S	E	P	D	L	G	Macro	Description
U+029BF		•						\circledbullet	circled bullet
U+029C2		0°						\cirscir	circle with small circle to the right
U+029C3		O=						\cirE	circle with two horizontal strokes to the right
u+0 2 9c9		由						\boxonbox	two joined squares
u+0 2 9ca		$\dot{\triangle}$						\triangleodot	triangle with dot above
u+0 2 9СВ								\triangleubar	triangle with underbar
u+0 2 9cc		<u>\s\</u>						\triangles	s in triangle
U+0 2 9DC		۵						\iinfin	incomplete infinity
U+0 2 9DD		&						\tieinfty	tie over infinity
U+029DE		\$						\nvinfty	infinity negated with vertical bar
U+0 2 9E0								\laplac	square with contoured outline
u+0 2 9E7		‡						\thermod	thermodynamic
u+0 2 9E8		V						\downtriangleleftblack	down-pointing triangle with left half black
u+0 2 9E9		T						\downtrianglerightblack	down-pointing triangle with right half black
U+029EA		•						\blackdiamonddownarrow	black diamond with down
U+0 2 9EC		Q						\circledownarrow	white circle with down arrow
U+0 2 9ED		•						\blackcircledownarrow	black circle with down arrow
U+0 2 9EE		Φ						\errbarsquare	error-barred white square
U+0 2 9EF		Ē						\errbarblacksquare	error-barred black square
u+0 2 9F0		abla						\errbardiamond	error-barred white diamond
u+029F1		₹						\errbarblackdiamond	error-barred black diamond

USV	M	S	E	P	D	L	G	Macro	Description
U+029F2		Φ						\errbarcircle	error-barred white circle
u+029F3		•						\errbarblackcircle	error-barred black circle
U+02AE1		<u>ls</u>						\perps	perpendicular with s
U+02AF1		Î						\topcir	down tack with circle below
U+02B12								\squaretopblack	square with top half black
U+02B13								\squarebotblack	square with bottom half black
U+02B14								\squareurblack	square with upper right diagonal half black
U+02B15								\squarellblack	square with lower left diagonal half black
U+02B16		•						\diamondleftblack	diamond with left half black
U+02B17								\diamondrightblack	diamond with right half black
u+02B18		♦						\diamondtopblack	diamond with top half black
U+0 2 B19		\$						\diamondbotblack	diamond with bottom half black
U+02B1A								\dottedsquare	dotted square
U+0 2 B1B								\lgblksquare	black large square
U+0 2 B1C								\lgwhtsquare	white large square
U+0 2 B1D		٠	٠					\vysmblksquare	black very small square
U+0 2 B1E		п						\vysmwhtsquare	white very small square
U+0 2 B1F		•						\pentagonblack	black pentagon
U+0 2 B 2 O		\bigcirc						\pentagon	white pentagon
U+02B21		0						\varhexagon	white hexagon
U+02B22		•						\varhexagonblack	black hexagon
U+02B23		•						\hexagonblack	horizontal black hexagon

USV	M	S	E	P	D	L	G	Macro	Description
U+02B24								\lgblkcircle	black large circle
U+02B25		•	•					\mdblkdiamond	black medium diamond
u+02в26		♦	♦					\mdwhtdiamond	white medium diamond
u+02в27		•	•					\mdblklozenge	black medium lozenge
u+0 2 в 2 8		♦	♦					\mdwhtlozenge	white medium lozenge
u+02в29		•	•					\smblkdiamond	black small diamond
U+02B2A		•	•					\smblklozenge	black small lozenge
U+02B2B		♦	♦					\smwhtlozenge	white small lozenge
U+0 2 B 2 C		•						\blkhorzoval	black horizontal ellipse
U+02B2D		0						\whthorzoval	white horizontal ellipse
U+02B2E		•						\blkvertoval	black vertical ellipse
U+02B2F		0						\whtvertoval	white vertical ellipse
u+0 2 в50		☆						\medwhitestar	white medium star
u+02в51		*						\medblackstar	black medium star
u+02в52		*						\smwhitestar	white small star
и+02в53		•						\rightpentagonblack	black right-pointing pentagon
u+0 2 в54		\Diamond						\rightpentagon	white right-pointing pentagon
U+03012		₹						\postalmark	postal mark
u+03030		~~						\hzigzag	zigzag
U+1D7CE	0	0	0	0	0	0	0	\mbfzero	mathematical bold digit o
u+1D7CF	1	1	1	1	1	1	1	\mbfone	mathematical bold digit 1
u+1D7D0	2	2	2	2	2	2	2	\mbftwo	mathematical bold digit 2

USV	M	S	E	P	D	L	G	Macro	Description
U+1D7D1	3	3	3	3	3	3	3	\mbfthree	mathematical bold digit 3
U+1D7D2	4	4	4	4	4	4	4	\mbffour	mathematical bold digit 4
U+1D7D3	5	5	5	5	5	5	5	\mbffive	mathematical bold digit 5
U+1D7D4	6	6	6	6	6	6	6	\mbfsix	mathematical bold digit 6
U+1D7D5	7	7	7	7	7	7	7	\mbfseven	mathematical bold digit 7
u+1D7D6	8	8	8	8	8	8	8	\mbfeight	mathematical bold digit 8
U+1D7D7	9	9	9	9	9	9	9	\mbfnine	mathematical bold digit 9
U+1D7D8	0	0	0	0	0	0	0	\Bbbzero	mathematical double-struck digit o
U+1D7D9	1	1	1	1	1	1	1	\Bbbone	mathematical double-struck digit 1
U+1D7DA	2	2	2	2	2	2	2	\Bbbtwo	mathematical double-struck digit 2
U+1D7DB	3	3	3	3	3	3	3	\Bbbthree	mathematical double-struck digit 3
U+1D7DC	4	4	4	4	4	4	4	\Bbbfour	mathematical double-struck digit 4
U+1D7DD	5	5	5	5	5	5	5	\Bbbfive	mathematical double-struck digit 5
U+1D7DE	6	6	6	6	6	6	6	\Bbbsix	mathematical double-struck digit 6
U+1D7DF	7	7	7	7	7	7	7	\Bbbseven	mathematical double-struck digit 7
U+1D7E0	8	8	8	8	8	8	8	\Bbbeight	mathematical double-struck digit 8
U+1D7E1	9	9	9	9	9	9	9	\Bbbnine	mathematical double-struck digit 9
U+1D7E2	0	0	0	0	0	0	0	\msanszero	mathematical sans-serif digit o
U+1D7E3	1	1	1	1	1	1	1	\msansone	mathematical sans-serif digit 1
U+1D7E4	2	2	2	2	2	2	2	\msanstwo	mathematical sans-serif digit 2

USV	M	S	Е	Р	D	L	G	Macro	Description
U+1D7E5	3	3	3	3	3	3	3	\msansthree	mathematical sans-serif digit 3
U+1D7E6	4	4	4	4	4	4	4	\msansfour	mathematical sans-serif digit 4
U+1D7E7	5	5	5	5	5	5	5	\msansfive	mathematical sans-serif digit 5
U+1D7E8	6	6	6	6	6	6	6	\msanssix	mathematical sans-serif digit 6
U+1D7E9	7	7	7	7	7	7	7	\msansseven	mathematical sans-serif digit 7
U+1D7EA	8	8	8	8	8	8	8	\msanseight	mathematical sans-serif digit 8
U+1D7ЕВ	9	9	9	9	9	9	9	\msansnine	mathematical sans-serif digit 9
U+1D7EC	0	0	0	0	0	0	0	\mbfsanszero	mathematical sans-serif bold digit o
u+1D7ED	1	1	1	1	1	1	1	\mbfsansone	mathematical sans-serif bold digit 1
U+1D7EE	2	2	2	2	2	2	2	\mbfsanstwo	mathematical sans-serif bold digit 2
u+1d7ef	3	3	3	3	3	3	3	\mbfsansthree	mathematical sans-serif bold digit 3
U+1D7F0	4	4	4	4	4	4	4	\mbfsansfour	mathematical sans-serif bold digit 4
U+1D7F1	5	5	5	5	5	5	5	\mbfsansfive	mathematical sans-serif bold digit 5
U+1D7F2	6	6	6	6	6	6	6	\mbfsanssix	mathematical sans-serif bold digit 6
u+1D7F3	7	7	7	7	7	7	7	\mbfsansseven	mathematical sans-serif bold digit 7
u+1D7F4	8	8	8	8	8	8	8	\mbfsanseight	mathematical sans-serif bold digit 8
u+1D7F5	9	9	9	9	9	9	9	\mbfsansnine	mathematical sans-serif bold digit 9
u+1D7F6	0	Θ	0	0	0	0	0	\mttzero	mathematical monospace digit o
U+1D7F7	1	1	1	1	1	1	1	\mttone	mathematical monospace digit

USV	M	S	Е	Р	D	L	G	Macro	Description
U+1D7F8	2	2	2	2	2	2	2	\mtttwo	mathematical monospace digit 2
U+1D7F9	3	3	3	3	3	3	3	\mttthree	mathematical monospace digit 3
u+1d7fa	4	4	4	4	4	4	4	\mttfour	mathematical monospace digit 4
и+107ғв	5	5	5	5	5	5	5	\mttfive	mathematical monospace digit 5
u+1D7FC	6	6	6	6	6	6	6	\mttsix	mathematical monospace digit 6
u+1D7FD	7	7	7	7	7	7	7	\mttseven	mathematical monospace digit 7
U+1D7FE	8	8	8	8	8	8	8	\mtteight	mathematical monospace digit 8
U+1D 7 FF	9	9	9	9	9	9	9	\mttnine	mathematical monospace digit 9

14 Relation symbols, \mathrel

USV	M	S	E	Р	D	L	G	Macro	Description
U+0003C	<	<	<	<	<	<	<	\less	less-than sign r:
U+0003D	=	=	=	=	=	=	=	\equal	equals sign r:
U+0003E	>	>	>	>	>	>	>	\greater	greater-than sign r:
U+02050		С						\closure	close up
U+02190	\leftarrow	←	←	←	←	←	←	$\verb leftarrow ^{(p)}$	/leftarrow /gets a: leftward arrow
U+0 2 191	↑	↑	1	1	1	↑	↑	$\label{local_point} $$ \sup_{p} \sum_{p} p $	upward arrow
U+02192	\rightarrow	\rightarrow	\rightarrow	\rightarrow	\rightarrow	\rightarrow	\rightarrow	$\verb \rightarrow ^{(p)}$	/rightarrow /to a: rightward arrow
U+02193	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	$\verb \downarrow ^{(p)}$	downward arrow
U+02194	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	$\verb \label{leftrightarrow } $	left and right arrow
U+02195	‡	1	1	‡	1	\$	‡	$\verb \updownarrow ^{(p)}$	up and down arrow
u+02196	_	^		Κ,	^	_	_	\nwarrow ^(p)	nw pointing arrow
U+02197	7	1	1	7	7	7	7	$\nextcolor{l}{ extcolor{nearrow}^{(p)}}$	ne pointing arrow
U+02198	¥	>	\	7	>	7	7	\searrow ^(p)	se pointing arrow
U+0 2 199	✓	1	/	✓	1	✓	✓	\swarrow ^(p)	sw pointing arrow
U+0219A	//	↔	↔	~	\	\/	\	\n	not left arrow
U+0 2 19B	$ \leftrightarrow $	<i>→</i> >	<i>→</i>	<i>→</i> >	/ →	<i>→</i> >	<i>→</i>	\nrightarrow ^(a)	not right arrow
U+0219C		K ~				←	K ^	\leftwavearrow	left arrow-wavy
U+0219D		~				<i>→</i>	∼ı	\rightwavearrow	right arrow-wavy
U+0219E	«	~~	«-	«-	«-	«-	«-	$\verb \twoheadleftarrow ^{(a)}$	left two-headed arrow
U+0219F	*	†	†	†	†	†	†	\twoheaduparrow	up two-headed arrow
U+021A0	→	→	→		→	→	-	$\verb \twoheadrightarrow ^{(a)}$	right two-headed arrow

USV	M	S	E	P	D	L	G	Macro	Description
U+021A1	*	ŧ	ţ	¥	\$	\$	¥	\twoheaddownarrow	down two-headed arrow
U+021A2	\leftarrow	${\bf leftarrowtail}^{(a)}$	left arrow-tailed						
U+021A3	\rightarrowtail	\rightarrow	\rightarrow	\rightarrow	\rightarrow	\rightarrow	\rightarrow	\rightarrowtail ^(a)	right arrow-tailed
U+021A4	\leftarrow	\mapsfrom	maps to, leftward						
U+021A5	1	1	1	1	1	1	1	\mapsup	maps to, upward
u+021A6	\mapsto	$\mbox{\tt \mbox{\tt \m}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}$	maps to, rightward						
U+021A7	Ţ	Ţ	Ţ	Ţ	Ţ	Ţ	Ţ	\mapsdown	maps to, downward
U+021A9	\leftarrow	ب	←	←	\leftarrow	\leftarrow	<i>←</i>	$\verb \hookleftarrow ^{(p)}$	left arrow-hooked
U+021AA	\hookrightarrow	$\verb \hookrightarrow ^{(p)}$	right arrow-hooked						
U+021AB	↔	↔	₽	↔	← ₽	← P	↔	$\verb \looparrowleft ^{(a)}$	left arrow-looped
U+0 2 1AC	↔	9→	9→	↔	9→	9→	↔	$\verb \looparrowright ^{(a)}$	right arrow-looped
U+0 2 1AD	<₩	₩	↔ >	€√>	₩	<>→	↔	$\verb \label{leftrightsquigarrow } $	left and right arr-wavy
U+021AE	⟨/⟩	↔	↔	↔	↔	↔	↔	$\verb \nleftrightarrow ^{(a)}$	not left and right arrow
U+0 2 1AF		\$				4	4	\downzigzagarrow	downwards zigzag arrow
U+0 2 1B0	ф	٦	1	4	4	4	Ą	\Lsh (a)	/lsh a:
U+0 2 1B1	b	ř	٢	ľ	ř	ř	ļ	$\backslash \mathtt{Rsh}^{(\mathtt{a})}$	/rsh a:
U+021B2	4	Ļ	Ą	Ą	4	4	4	\Ldsh	left down angled arrow
U+021B3	Ļ	Ļ	Ļ	Ļ	4	Ļ	L	\Rdsh	right down angled arrow
U+021B6	N	$ \leftarrow $	$ \uparrow $	8	~	\checkmark	\sim	$\verb \curvearrowleft ^{(a)}$	left curved arrow
U+021B7	\sim	\rightarrow	\Diamond	~	~	ightharpoons	\sim	$\verb \curvearrowright ^{(a)}$	right curved arrow
U+021BC		_	<u>~</u>	_	_	<u>~</u>	_	$\verb \label{leftharpoonup} (p)$	left harpoon-up
U+0 2 1BD	<u> </u>	_	_	-	_	_	<u> </u>	$\verb \label{leftharpoondown} (p)$	left harpoon-down

USV	M	S	E	Р	D	L	G	Macro	Description
U+021BE		1	1	1	1	1	1	\upharpoonright ^(a)	/upharpoonright /restriction a: up harpoon-right
U+021BF	1	1	1	1	1	1	1	$\verb \upharpoonleft ^{(a)}$	up harpoon-left
U+0 21 C0		_	<u></u>	<u></u>		<u></u>		$\verb \rightharpoonup ^{(p)}$	right harpoon-up
U+0 2 1C1	\rightarrow	\rightarrow	-	\rightarrow		~	\rightarrow	$\verb \rightharpoondown ^{(p)}$	right harpoon-down
U+021C2	ļ	ļ	ļ	ļ	ļ	ļ	l	$\verb \downharpoonright ^{(a)}$	down harpoon-right
U+0 21 C3	1	1	1	1	1	1	1	$\verb \downharpoonleft ^{(a)}$	down harpoon-left
U+0 2 1C4	ightleftarrow	⇄	⇄	⇄	\rightleftarrows	\leftrightarrows	\rightleftarrows	\rightleftarrows ^(a)	right arrow over left arrow
U+0 2 1C5	†	$\uparrow\downarrow$	1↓	1 ↓	1	1	1	\updownarrows	up arrow, down arrow
u+021c6	\leftrightarrows	≒	⇆	≒	\leftrightarrows	ightleftarrow	\leftrightarrows	$\verb \label{leftrightarrows} ^{(a)}$	left arrow over right arrow
U+021C7	$ \leftarrow $	⊭	⊭	⊭	⊭	⊭	⇇	$\verb \label{leftarrows} (a)$	two left arrows
U+021C8	$\uparrow\uparrow$	$\uparrow\uparrow$	11	↑ ↑	11	↑	↑	\upuparrows(a)	two up arrows
U+0 2 1C9	\Rightarrow	⇉	⇉	\Rightarrow	\Rightarrow	\Rightarrow	\Rightarrow	$\verb \rightrightarrows ^{(\texttt{a})}$	two right arrows
U+0 21 CA	$\downarrow \downarrow$	$\downarrow \downarrow$	$\downarrow \downarrow$	‡	$\downarrow \downarrow$	#	$\downarrow \downarrow$	$\verb \downdownarrows ^{(a)}$	two down arrows
U+0 2 1CB	=	=	=	=	=	=	=	$\verb \label{leftrightharpoons} (a)$	left harpoon over right
U+0 2 1CC	\rightleftharpoons	\rightleftharpoons	=	=	\rightleftharpoons	\rightleftharpoons	\rightleftharpoons	$\verb \rightleftharpoons ^{()}$	right harpoon over left
U+021CD	#	#	#	#	#	#	#	$\verb \nLeftarrow ^{(a)}$	not implied by
U+021CE	#	#	⇔	#	#	#	#	$\verb \nLeftrightarrow ^{(a)}$	not left and right double arrows
U+021CF	<i>#</i> >	<i></i>	⇒	∌	≠ >	⇒	\Rightarrow	$\verb \nRightarrow ^{(a)}$	not implies
U+021D0	=	\(=	(=	(=	($\verb \Leftarrow ^{(p)}$	is implied by
U+021D1	\uparrow	\uparrow	1	î	1	1	1	$ackslash extsf{Uparrow}^{(p)}$	up double arrow
U+021D2	\Rightarrow	\Rightarrow	\Rightarrow	\Rightarrow	\Rightarrow	\Rightarrow	\Rightarrow	$\verb \Rightarrow ^{(p)}$	implies
U+021D3		\Downarrow	\Downarrow	\Downarrow	U			\Downarrow ^(p)	down double arrow

USV	M	S	Е	Р	D	L	G	Macro	Description
U+021D4	\Leftrightarrow	\Leftrightarrow	\Leftrightarrow	\Leftrightarrow	\Leftrightarrow	⇔	\Leftrightarrow	$\verb \Leftrightarrow ^{(p)}$	left and right double arrow
U+021D5	\$	\$	\$	1	1	\$	‡	$\verb \Updownarrow ^{(p)}$	up and down double arrow
U+021D6		N	V	N				\Nwarrow	nw pointing double arrow
U+021D7	7	1	7	7	1	1	1	\Nearrow	ne pointing double arrow
U+021D8	A	Ø	4	<i>\(\rightarrow</i>				\Searrow	se pointing double arrow
U+021D9	4	4	U	4		4	U	\Swarrow	sw pointing double arrow
U+021DA		€		€		⇐	=	$\verb \Lleftarrow ^{(a)}$	left triple arrow
U+021DB	\Rightarrow	\Rightarrow	⇒	⇒	⇒	⇒	⇒	$\verb \Rrightarrow ^{(a)}$	right triple arrow
U+021DC	₩	₩	**	₩	₩	~ ~	← ~	\leftsquigarrow	leftwards squiggle arrow
U+021DD	-∿>	₩	~ →	^>	→	~ >	~ >	\rightsquigarrow ^(a)	rightwards squiggle arrow
U+0 2 1E4		⊬				⊬	⊬	\barleftarrow	leftwards arrow to bar
U+0 2 1E5		\rightarrow I				\rightarrow I	\rightarrow I	\rightarrowbar	rightwards arrow to bar
U+0 2 1F4		-0)					- →	\circleonrightarrow	right arrow with small circle
U+021F5	\	↓ ↑	‡ 1	↓ ↑	J 1	1	\$	\downuparrows	downwards arrow leftwards of upwards arrow
u+021F6	\Rightarrow	⇉	⇉	\Rightarrow	ightharpoons	⇉	⇉	\rightthreearrows	three rightwards arrows
U+021F7		(+				(+	<+	\nvleftarrow	leftwards arrow with vertical stroke
U+021F8		→				+ >	+>	\nvrightarrow	rightwards arrow with vertical stroke
U+0 21 F9		(1)				↔	↔	\nvleftrightarrow	left right arrow with vertical stroke
U+021FA		< -				< -	< -	\nVleftarrow	leftwards arrow with double vertical stroke
U+0 21 FB		 >				 >	-#→	\nVrightarrow	rightwards arrow with double vertical stroke
U+021FC		↔				()	< >	\nVleftrightarrow	left right arrow with double vertical stroke

USV	M	S	Е	Р	D	L	G	Macro	Description
U+021FD		←				←	←	\leftarrowtriangle	leftwards open-headed arrow
U+021FE		\rightarrow				\rightarrow	\rightarrow	\rightarrowtriangle	rightwards open-headed arrow
U+021FF		\leftrightarrow				\Leftrightarrow	\leftrightarrow	\leftrightarrowtriangle	left right open-headed arrow
U+02208	€	€	€	€	€	€	€	$\operatorname{f lin}^{(p)}$	set membership, variant
U+0 22 09	∉	∉	∉	∉	∉	∉	∉	\mathbf{ullet}	negated set membership
U+0220A	€	€	ε	€	€	€	€	\smallin	set membership (small set membership)
U+0220B	∋	∋	Э	∋	∋	€	€	\ni ^(p)	contains, variant
U+0220C	∌	∌	∌	∌	∌	∌	∌	\nni	negated contains, variant
U+0220D	∋	€	Э	∋	∋	Э	Э	\smallni	/ni /owns r: contains (small contains as member)
U+0 22 1D	\propto	α	\propto	\propto	α	∝	α	\propto ^(p)	is proportional to
U+02223		1	1	1	1			$\mbox{\mbox{\bf Mid}}^{(p)}$	/mid r:
U+02224	ł	ł	ł	ł	ł	ł	ł	$\mbox{\sc nmid}^{(a)}$	negated mid
U+02225								$\mathbf{parallel}^{(p)}$	parallel
u+02226	ł	#	¥	¥	¥	ł	ł	$\verb \nparallel ^{(a)}$	not parallel
u+0 22 36	:	:	:	:	:	:	:	\mathratio	ratio
U+0 22 37	::	::	::	::	::	::	::	\Colon	two colons
U+0 22 39	-:	-:	-:	-:	-:	- :	-:	\dashcolon	excess (-:)
U+0223A	∺	∺	H	÷	H	Ħ	H	\dotsminusdots	minus with four dots, geometric properties
U+0223B	$\dot{\sim}$	∻	∻	∻	÷	÷	÷	\kernelcontraction	homothetic
U+0 223 C	~	~	~	~	~	~	~	$\sim^{(p)}$	similar
U+0223D	~	~	~	~	~	~	~	$\verb \backsim ^{(a)}$	reverse similar
U+02241	*	*	*	*	*	*	4	$\mbox{\sc nsim}^{(a)}$	not similar

USV	M	S	E	P	D	L	G	Macro	Description
U+02242	abla	$\overline{\sim}$	₽	=	≂	≂	≂	$\texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ \ \ }} \texttt{\ \ \ \ \ }} \texttt{\ \ \ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ \ \ }} \ \ \ $	equals, similar
u+02243	\simeq	~	~	~	~	~	~	$\slash{ t simeq^{(p)}}$	similar, equals
U+02244	≄	≄	≄	#	≄	≄	≄	\nsime	not similar, equals
U+02243	\simeq	~	~	~	~	~	~	\sime	similar, equals (alias)
U+02244	4	≄	≇	≄	≄	≄	≄	\nsimeq	not similar, equals (alias)
U+02245	\cong	\cong	≅	≅	≅	≅	≅	$\setminus cong^{(I)}$	congruent with
u+02246	≆	\cong	≆	≆	≆	≆	≆	\simneqq	similar, not equals [vert only for 9573 entity]
U+02247	≇	≇	≇	≇	≇	≇	≇	${f \setminus ncong}^{(a)}$	not congruent with
u+02248	≈	≈	≈	≈	≈	≈	≈	$\approx^{(p)}$	approximate
u+0 22 49	*	*	*	≉	*	*	≉	\napprox	not approximate
U+0224A	≊	≊	<u>≈</u>	≊	≊	≊	≊	$\approxeq^{(a)}$	approximate, equals
U+0224B	≋	≋	≋	≋	≋	≋	≋	\approxident	approximately identical to
U+0 22 4C	<u> </u>	<u> </u>	≅	SII	≅	¥	¥	\backcong	all equal to
U+0224D	\cong	\simeq	×	×	×	×	×	$\texttt{\normalfont{Asymp}}(p)$	asymptotically equal to
U+0224E	≎	\$	\$	\$	\$		\$	$\begin{center} \begin{center} \beg$	bumpy equals
U+0224F	<u>~</u>	-	<u></u>	<u></u>	-		<u>~</u>	$\verb \bumpeq ^{(a)}$	bumpy equals, equals
U+02250	÷	÷	≐	÷	÷	≐	÷	extstyle ext	equals, single dot above
U+02251	÷	÷	÷	÷	÷	÷	÷	$\backslash \mathtt{Doteq}^{(\mathtt{a})}$	/doteqdot /doteq r: equals, even dots
U+02252	≒	≒	≒	≒	≒	≒	≒	$\verb \fallingdotseq ^{(a)}$	equals, falling dots
U+02253	≓	≓	≓	≓	≓	≓	≓	$\verb \risingdotseq ^{(a)}$	equals, rising dots
U+02254	:=	:=	:=	:=	:=	:=	:=	\coloneq	colon, equals
U+02255	=:	=:	=:	=:	=:	=:	=:	\eqcolon	equals, colon

USV	M	S	E	Р	D	L	G	Macro	Description
u+02256	<u> </u>	<u> </u>	≖	п	==	<u> </u>	±	$ extsf{ exitsf{ extsf{ extsf{ extsf{ extsf{ extsf{ extsf{ extsf{ extsf{ exitsf{ extsf{ exitsf{ extsf{ exitsf{ extsf{ exitsf{ extsf{ extsf{ extsf{ extsf{ extsf{ extsf{ extsf{ extsf{ exitsf{ extsf{ extsf{ extsf{ extsf{ extsf{ extsf{ extsf{ extsf{ exitsf{ extsf{ extsf{ extsf{ extsf{ extsf{ extsf{ exitsf{ extsf{ extsf{ extsf{ extsf{ extsf{ extsf{ exitsf{ extsf{ exitsf{ extsf{ exitsf{ extsf{ exitsf{ exitsf{ extsf{ exitsf{ extsf{ extsf{ extsf{ extsf{ exitsf{ exitsf{ extsf{ extsf{ extsf{ exitsf{ extsf{ exitsf{ extsf{ exitsf{ extsf{ exitsf{ exitsf{ exitsf{ exitsf{ extsf{ extsf{ extsf{ exitsf{ exitsf{ exitsf{}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}$	circle on equals sign
U+02257	<u>•</u>	<u>•</u>	<u>•</u>	<u>•</u>	<u>•</u>	<u>•</u>		$\c \c \$	circle, equals
U+02258	=	-	≘	≘	≘	≘		\arceq	arc, equals; corresponds to
U+02259	<u></u>	_	<u></u>	^	<u></u>	<u>^</u>		\wedgeq	corresponds to (wedge, equals)
U+0225A	<u>×</u>	$\stackrel{\vee}{=}$	<u>×</u>	<u>×</u>	≚	<u>~</u>		\veeeq	logical or, equals
U+0225B	<u>*</u>	*	<u>*</u>	<u>*</u>	<u>*</u>	<u>*</u>		\stareq	star equals
U+0 22 5C	<u></u>	≜	≜	<u>△</u>	<u></u>	<u>_</u>		$\verb \triangleq ^{(a)}$	triangle, equals
U+0225D	def	<u>def</u>	def	<u>def</u>	def	def		\eqdef	equals by definition
U+0225E	<u>m</u>	<u>m</u>	<u>m</u>	<u>m</u>	<u>m</u>	<u>m</u>		\measeq	measured by (m over equals)
U+0225F	?	?	<u>?</u>	<u>?</u>	?	?		\questeq	equal with questionmark
U+0 22 60	#	<i>≠</i>	#	#	<i>≠</i>	#	≠	$\ensuremath{\mathtt{ne}^{(\mathrm{p})}}$	/ne /neq r: not equal
U+0 22 61	≡	≡	≡	≡	=	=	≡	$\texttt{\setminus equiv}^{(p)}$	identical with
U+02262	#	≢	#	≢	#	≢	≢	\nequiv	not identical with
U+02263	≡	≡	≣	≣	≡	≡	≣	\Equiv	strict equivalence (4 lines)
U+02264	\leq	<u>≤</u>	≤	≤	≤	\leq	≤	$\label{eq:posterior} \$	/leq /le r: less-than-or-equal
u+02265	\geq	<u>></u>	≥	\geq	≥	≥	≥	$\geq^{(p)}$	/geq /ge r: greater-than-or- equal
U+02266	\leq	≦	≦	≦	≦	≦	≦	\label{leqq}	less, double equals
u+02267	\geq	≧	≧	\geq	≧	≧	≧	$\gray \gray \gra$	greater, double equals
U+02268	≨	≨	≨	≨	≨	≨	≨	\label{lneqq}	less, not double equals
u+02269	≩	≥	≩	≥	*	≩	≩	$\backslash \mathtt{gneqq}^{(\mathtt{a})}$	greater, not double equals
u+0226a	«	«	«	«	«	«	«	\11 (p)	much less than, type 2
u+0226в	>>	>>	>>>	>>	>>>	>>>	>>	$\lg g^{(p)}$	much greater than, type 2

USV	M	S	E	Р	D	L	G	Macro	Description
U+0226C	Ŏ	Ŏ	Ŏ	Ŏ	Ŏ	Ŏ	Ŏ	\between(a)	between
U+0 22 6D	*	*	*	*	*	*	*	\nasymp	not asymptotically equal to
u+0 226 E	*	*	≮	≮		≮	*	\n	not less-than
U+0226F	*	>	>	>	*	>	*	\ngtr ^(a)	not greater-than
U+0 227 0	≰	≰	≰	≰	≰	≰	≰	$\neq^{(a)}$	not less-than-or-equal
U+0 227 1	≱	≱	≱	≱	≱	≱	≱	$\ngeq^{(a)}$	not greater-than-or-equal
U+02272	≲	≲	≲	≲	≲	≲	≲	$\verb \label{lesssim} (a)$	less, similar
U+0 227 3	≳	≳	≳	≳	≳	≳	≳	$\texttt{\gtrsim}^{(a)}$	greater, similar
U+0 22 74	\$	\$	\$	≴	\$	≴	\$	\nlesssim	not less, similar
U+02275	≵	≵	≵	≵	≵	≵	≵	\ngtrsim	not greater, similar
u+02276	≶	≶	≶	≶	≶	≶	≶	$\verb \label{lessgtr} (a)$	less, greater
U+0 22 77	≷	≷	≷	≷	≷	≷	≷	$\verb \gtrless ^{(a)}$	greater, less
U+02278	≸	\$	\$	≸	≸	*	\$	\nlessgtr	not less, greater
U+0 227 9	≹	≹	≹	₹	≹	₹	≹	\ngtrless	not greater, less
U+0227A	\prec	<	<	<	<	\prec	~	$\prec^{(p)}$	precedes
U+0 227 B	>	>	>	>	>	>	>	$\scalebox{succ}^{(p)}$	succeeds
U+0 227 C	\preccurlyeq	\leq	«	\leq	*	\preccurlyeq	≼	$\verb \preccurlyeq ^{(a)}$	precedes, curly equals
U+0227D	≽	≽	≽	≽	≽	≽	≽	$\verb \succcurlyeq ^{(a)}$	succeeds, curly equals
U+0227E	\preceq	≾	≾	≾	≾	≾	≾	$\texttt{\precsim}^{(a)}$	precedes, similar
U+0227F	≿	≿	≿	≿	≿	≿	≿	$\verb \succsim ^{(a)}$	succeeds, similar
U+02280	K	*	⊀	⊀	*	*	*	\nprec ^(a)	not precedes
U+02281	*	*	*	*	*	*	*	$\normalfont{Insucc}^{(a)}$	not succeeds

USV	M	S	E	Р	D	L	G	Macro	Description
U+02282	\subset	C	C	<u> </u>	C	C	C	$\sl bset^{(p)}$	subset or is implied by
U+02283	\supset	D	\supset	\supset	D	C	D	$\backslash \mathtt{supset}^{(\texttt{p})}$	superset or implies
u+02284	⊄	⊄	⊄	⊄	⊄	¢	⊄	\nsubset	not subset, variant [slash negation]
u+02285	ot	⊅	⊅	⊅	⊅	⊅	⊅	\nsupset	not superset, variant [slash negation]
u+02286	\subseteq	⊆	⊆	\subseteq	⊆	⊆	⊆	$\verb \subseteq ^{(p)}$	subset, equals
U+02287	⊇	⊇	⊇	⊇	⊇	⊇	⊇	$\verb \supseteq ^{(p)}$	superset, equals
U+02288	⊈	⊈	⊈	⊈	⊈	⊈	⊈	$\verb \nsubseteq ^{(a)}$	not subset, equals
U+02289	⊉	⊉	⊉	⊉	⊉	⊉	⊉	$\verb \nsupseteq ^{(a)}$	not superset, equals
u+0228a	Ç	Ç	Ç	Ç	Ç	Ç	Ç	$\verb \subsetneq ^{(a)}$	subset, not equals
U+0228B	\supseteq	⊋	⊋	⊋	⊋	⊋	⊋	$\verb \supsetneq ^{(a)}$	superset, not equals
u+0228f	⊏	⊏	⊏		⊏	⊏	⊏	\sqsubset	square subset
U+0 229 0		⊐			⊐		٥	\sqsupset	square superset
U+0 22 91	⊑	⊑	⊑	⊑	⊑	⊑	⊑	$\verb \sqsubseteq ^{(p)}$	square subset, equals
U+0 2292	⊒	⊒	⊒	⊒	⊒	⊒	⊒	$\verb \sqsupseteq ^{(p)}$	square superset, equals
U+022A2	F	F	F	⊢	Н	F	F	$\mathbf{\backslash vdash}^{(\mathrm{p})}$	vertical, dash
U+022A3	Н	Н	Н	\dashv	Н	\dashv	4	$\operatorname{f dashv}^{(p)}$	dash, vertical
U+022A6	F	F	F	F	F	F	F	\assert	assertion (vertical, short dash)
u+022A7	þ	þ	þ	F	þ	F	þ	$\verb \models ^{(p)}$	models (vertical, short double dash)
U+022A8	þ	Þ	þ	F	F	⊨	F	$\verb \vDash ^{(a)}$	vertical, double dash
U+022A9	⊩	⊩	⊩	⊩	⊩	⊩	IF	$\backslash {\tt Vdash}^{({\tt a})}$	double vertical, dash
U+022AA	⊪	III	⊪	III	⊪	⊩	⊪	$\mathbf{\backslash Vvdash}^{(a)}$	triple vertical, dash
U+022AB	l⊨	I⊨	⊫	l⊨	⊫	⊫	I⊨	\VDash	double vert, double dash

USV	M	S	E	Р	D	L	G	Macro	Description
U+022AC	¥	¥	¥	¥	⊬	⊬	⊬	$\mathbf{\ \ }\mathbf{\ \ \ }\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	not vertical, dash
U+022AD	¥	¥	¥	¥	⊭	¥	¥	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	not vertical, double dash
U+022AE	⊮	¥	⊮	⊮	I⊬	⊮	I⊬	$\verb \nVdash ^{(a)}$	not double vertical, dash
U+022AF	Æ	¥	⊭	Æ	⊯	⊭	I⊭	$\n VDash^{(a)}$	not double vert, double dash
U+022BO		4					3	\prurel	element precedes under relation
U+022B1		۶					۶	\scurel	succeeds under relation
U+022B2	\triangleleft	⊲	⊲	⊲	⊲	⊲	⊲	$\verb \vartriangleleft ^{(a)}$	left triangle, open, variant
U+022B3	\triangleright	\triangleright	>	\triangleright	\triangleright	\triangleright	>	$\verb \vartriangleright ^{(a)}$	right triangle, open, variant
U+022B4	⊴	⊴	⊴	⊴	⊴	⊴	⊴	$\verb \trianglelefteq ^{(a)}$	left triangle, equals
U+022B5	⊵	⊵	⊵	ightharpoons	⊵	⊵	₽	$\verb \trianglerighteq ^{(a)}$	right triangle, equals
u+0 22 в6	0-	○	○	0-•	0-0	0-0	0-4	\origof	original of
U+022B7	•••	•••	•••	•••	•-0	•0	•••	\imageof	image of
U+0 22 в8	-0	~	~	-0	-0		~	$\verb \multimap ^{(a)}$	/multimap a:
U+022C8	M	M	×	M	M	M	M	$\verb \bowtie ^{(p)}$	bowtie
U+0 22 CD	<u>S</u>	15	<u>\{</u>	<u>\</u>	≃	<u>~</u>	≅	$\verb \backsimeq ^{(a)}$	reverse similar, equals
U+022D0	€	€	©	€	€		€	$\verb \Subset ^{(a)}$	double subset
U+0 22 D1	⋑	⋑	∍		∋		⋑	$\S{upset}^{(a)}$	double superset
U+022D4		Λ	Ψ				ф	$\verb \pitchfork ^{(a)}$	pitchfork
U+022D5	#	#	#	#	#		#	\equalparallel	parallel, equal; equal or parallel
U+022D6	<	<	<	<	⋖	<	<	\lessdot ^(a)	less than, with dot
U+022D7	>	≽	⊳	≽	⊳	≽	≽	\gtrdot ^(a)	greater than, with dot
U+022D8	///	**	**	~	~	///	***	\111 (a)	/ll /lll /llless r: triple less-than

USV	M	S	E	P	D	L	G	Macro	Description
U+022D9	>>>	>>>	>>>	>>>	>>>	>>>	>>>	\ggg ^(a)	/ggg /gg /gggtr r: triple greater-than
U+022DA	\leq	<u> </u>	<u> </u>	\leq	VIA.	\leq	\leq	$\verb \lesseqgtr ^{(a)}$	less, equals, greater
U+022DB	\geq	<u>></u>	>	\geq	N<	\geq	>	$\verb \gtreqless ^{(a)}$	greater, equals, less
U+0 22 DC	<	<	<	<	<	<	₹	\eqless	equal-or-less
U+022DD	>	>	>	>	>	>	5	\eqgtr	equal-or-greater
U+022DE	\Rightarrow	⋞	<	4	<	4	⋞	\curlyeqprec ^(a)	curly equals, precedes
U+022DF	۶	≽	>	≽	≽	>	>	\curlyeqsucc ^(a)	curly equals, succeeds
U+022E0	⋠	≰	≰	≰	≰	≰	⋠	\npreccurlyeq	not precedes, curly equals
U+022E1	*	*	*	*	*	*	¥	\nsucccurlyeq	not succeeds, curly equals
U+022E2	⊭	⊭	⊈	⊈	⊭	⊭	⊭	\nsqsubseteq	not, square subset, equals
U+022E3	⊉	⊉	⊉	⊉	⊉	⊉	⊉	\nsqsupseteq	not, square superset, equals
U+022E4	Ţ	Ę	두	<u>_</u>	Ç	Ţ	Ş	\sqsubsetneq	square subset, not equals
U+022E5	寻	7	⊋	7	⊋	⊋	⊋	\sqsupsetneq	square superset, not equals
U+022E6	Ş	⋦	⋦	⋦	⋦	\$	\$	\lnsim ^(a)	less, not similar
U+022E7	⋧	<i></i> ≈	⋧	>≠	⋧	⋧	⋧	\gnsim ^(a)	greater, not similar
U+022E8	⋨	⋨	⋨	⋨	⋨	⋨	వ	\precnsim ^(a)	precedes, not similar
U+0 22 E9	<i>‰</i>	<i>≿</i> ≉	<i>≿</i> ≠	≿ ≉	≵	⋩	⋩	\succnsim ^(a)	succeeds, not similar
U+022EA		⋪	4	⋪	4	A	A	\nvartriangleleft	not left triangle
U+022EB	\(\rightarrow\)	×	\$	>	Þ	\triangleright	Þ	\nvartriangleright	not right triangle
U+022EC	⊉	⊉	⊉	⊉	⊉	⊉	⊉	$\verb \ntrianglelefteq ^{(a)}$	not left triangle, equals
U+022ED	⊭	⊭	⊭	⊭	⋭	⊭	⊭	$\verb \ntrianglerighteq ^{(a)}$	not right triangle, equals
U+022EE	:	:	÷	:	÷	:	:	$Vwdots^{(p)}$	vertical ellipsis

USV	M	S	E	P	D	L	G	Macro	Description
U+022F0	e.		.*			.**	1	\adots	three dots, ascending
U+0 22 F1	Α,	٠.	٠.	٠.	٠.	٠.	N	${f ddots}^{(p)}$	three dots, descending
U+022F2		€						\disin	element of with long horizontal stroke
U+022F3		⋳						\varisins	element of with vertical bar at end of horizontal stroke
U+022F4		e						\isins	small element of with vertical bar at end of horizontal stroke
U+022F5		Ė						\isindot	element of with dot above
u+0 22 F6		⋶						\varisinobar	element of with overbar
U+022F7		Ē						\isinobar	small element of with overbar
U+022F8		⋸						\isinvb	element of with underbar
U+022F9		€						\isinE	element of with two horizontal strokes
U+022FA		⋺						\nisd	contains with long horizontal stroke
U+022FB		Ð						\varnis	contains with vertical bar at end of horizontal stroke
U+0 22 FC		Ð						\nis	small contains with vertical bar at end of horizontal stroke
U+022FD		⋽						\varniobar	contains with overbar
U+022FE		⋾						\niobar	small contains with overbar
U+0 22 FF		E						\bagmember	z notation bag membership
U+02322				$\overline{}$				$\verb \frown ^{(p)}$	down curve
U+02323	\smile	\smile	_	\smile	\smile	\smile	<u> </u>	$\sl e^{(p)}$	up curve
U+0233F		+						\APLnotslash	solidus, bar through (apl functional symbol slash bar)
U+025B5		Δ	Δ					$\verb \vartriangle ^{(a)}$	/triangle - up triangle, open

USV	M	S	E	P	D	L	G	Macro	Description
U+027C2	1	Τ	Т	Т	Т	Т	Τ	$\mathbf{perp}^{(p)}$	perpendicular
u+027c8		\C						\bsolhsub	reverse solidus preceding subset
U+0 2 7C9		⊃/						\suphsol	superset preceding solidus
U+027D2		Ψ						\upin	element of opening upwards
U+027D3		Ŀ						\pullback	lower right corner with dot
u+027D4		F						\pushout	upper left corner with dot
U+027DA	≢⊨	≓⊨	#	≢	#		丰	\DashVDash	left and right double turnstile
U+027DB	ℲͰ	⊣⊢	+	╬	╬		₩	\dashVdash	left and right tack
U+027DC	0—	0-	0-	0—	0—		~	\multimapinv	left multimap
U+0 2 7DD	\vdash	<u> </u>	<u> </u>	<u> </u>	\vdash		\vdash	\vlongdash	long left tack
U+027DE	\dashv	$\overline{}$	\dashv	\dashv	\dashv		4	\longdashv	long right tack
U+0 2 7DF		Î						\cirbot	up tack with circle above
U+0 2 7F0		1						\UUparrow	upwards quadruple arrow
U+0 27 F1		₩						\DDownarrow	downwards quadruple arrow
U+027F2		C				4)	5	\acwgapcirclearrow	anticlockwise gapped circle arrow
U+027F3		C				(~	G	\cwgapcirclearrow	clockwise gapped circle arrow
u+0 2 7F4	\bigoplus	⊕	⊕	⊕	⊕			\rightarrowonoplus	right arrow with circled plus
U+0 2 7F5		\leftarrow	←	←		←	←	$\verb \longleftarrow ^{(p)}$	long leftwards arrow
u+027F6	\longrightarrow	$\verb \longrightarrow ^{(p)}$	long rightwards arrow						
U+027F7	\longleftrightarrow	$\verb \longleftrightarrow ^{(p)}$	long left right arrow						
U+027F8	=	\leftarrow	⇐	←	←	←	←	$\verb \Longleftarrow ^{(p)}$	long leftwards double arrow
u+027F9	\Longrightarrow	$\verb \Longrightarrow ^{(p)}$	long rightwards double arrow						

USV	M	S	E	Р	D	L	G	Macro	Description
U+027FA	\iff	\Leftrightarrow	\iff	\iff	\iff	\iff	\iff	$\verb \Longleftrightarrow ^{(p)}$	long left right double arrow
u+027fв	\leftarrow	\leftarrow	\leftarrow	\leftarrow	\leftarrow	\leftarrow	\longleftarrow	\longmapsfrom	long leftwards arrow from bar
U+0 2 7FC	\longmapsto	\longmapsto	\longmapsto	\longmapsto	\longmapsto	\mapsto	\longmapsto	$\verb \longmapsto ^{(p)}$	long rightwards arrow from bar
U+027FD	\iff	\iff	\iff	\iff	\iff	\iff	\longleftarrow	\Longmapsfrom	long leftwards double arrow from bar
U+027FE	\Longrightarrow	\Longrightarrow	\Longrightarrow	\Longrightarrow	\Longrightarrow	\Longrightarrow	\Longrightarrow	\Longmapsto	long rightwards double arrow from bar
U+027FF	₩	~~~	~ ~~	- ₩ >	₩	~~	~~ >	\longrightsquigarrow	long rightwards squiggle arrow
u+0 2 900		-1>>						\nvtwoheadrightarrow	rightwards two-headed arrow with vertical stroke
u+0 29 01		-11>>						\nVtwoheadrightarrow	rightwards two-headed arrow with double vertical stroke
U+02902		#				#		\nvLeftarrow	leftwards double arrow with vertical stroke
U+02903		*				⇒		\nvRightarrow	rightwards double arrow with vertical stroke
U+0 2 904		⇔				⇔		\nvLeftrightarrow	left right double arrow with vertical stroke
U+02905		→						\twoheadmapsto	rightwards two-headed arrow from bar
u+0 2 906	\Leftarrow	⊭	⊭	∉	⊭	⊭	⊭	\Mapsfrom	leftwards double arrow from bar
u+02907	\Rightarrow	\Rightarrow	\Rightarrow	⇔	⊭	\Rightarrow	⊨	\Mapsto	rightwards double arrow from bar
u+0 2 908		‡						\downarrowbarred	downwards arrow with hori- zontal stroke
U+02909		‡						\uparrowbarred	upwards arrow with horizontal stroke
U+0 2 90A		1				1		\Uuparrow	upwards triple arrow
U+0 2 90B		₩						\Ddownarrow	downwards triple arrow
U+0 2 90C		←-						\leftbkarrow	leftwards double dash arrow

USV	M	S	Е	P	D	L	G	Macro	Description
U+0290D		>						\rightbkarrow	rightwards double dash arrow
U+0 2 90E								\leftdbkarrow	leftwards triple dash arrow
U+0 2 90F		>						\dbkarrow	rightwards triple dash arrow
u+0 29 10		> »						\drbkarrow	rightwards two-headed triple dash arrow
U+02911		>						\rightdotarrow	rightwards arrow with dotted stem
U+02912		T						\baruparrow	upwards arrow to bar
U+02913		\downarrow						\downarrowbar	downwards arrow to bar
u+0 2 914		>>>						\nvrightarrowtail	rightwards arrow with tail with vertical stroke
U+02915		/ >						\nVrightarrowtail	rightwards arrow with tail with double vertical stroke
u+02916		>>						\twoheadrightarrowtail	rightwards two-headed arrow with tail
u+02917		//>						\nvtwoheadrightarrowtail	rightwards two-headed arrow with tail with vertical stroke
U+02918		> >						\nVtwoheadrightarrowtail	rightwards two-headed arrow with tail with double vertical stroke
U+0 2 919		\prec						\lefttail	leftwards arrow-tail
U+0291A		—						\righttail	rightwards arrow-tail
U+0 2 91B								\leftdbltail	leftwards double arrow-tail
U+0 2 91C		» —						\rightdbltail	rightwards double arrow-tail
U+0291D		•←						\diamondleftarrow	leftwards arrow to black diamond
U+0291E		→•						\rightarrowdiamond	rightwards arrow to black diamond
U+0291F		•						\diamondleftarrowbar	leftwards arrow from bar to black diamond

USV	M	S	E	P	D	L	G	Macro	Description
U+02920		→•						\barrightarrowdiamond	rightwards arrow from bar to black diamond
U+02921		7						\nwsearrow	north west and south east arrow
U+02922		7						\neswarrow	north east and south west arrow
U+02923		5						\hknwarrow	north west arrow with hook
U+02924		7						\hknearrow	north east arrow with hook
U+02925		<i>\</i>						\hksearrow	south east arrow with hook
U+02926		2						\hkswarrow	south west arrow with hook
U+02927		X						\tona	north west arrow and north east arrow
U+02928		X						\toea	north east arrow and south east
U+02929		X						\tosa	south east arrow and south west arrow
U+0292A		×						\towa	south west arrow and north west arrow
u+02933		\rightarrow	\rightarrow					\rightcurvedarrow	wave arrow pointing directly right
u+02936		Ų	Ļ					\leftdowncurvedarrow	arrow pointing downwards then curving leftwards
U+02937		\	L					\rightdowncurvedarrow	arrow pointing downwards then curving rightwards
u+02938		2						\cwrightarcarrow	right-side arc clockwise arrow
u+02939		Ç						\acwleftarcarrow	left-side arc anticlockwise arrow
U+0293A		n						\acwoverarcarrow	top arc anticlockwise arrow
U+0293B		J						\acwunderarcarrow	bottom arc anticlockwise arrow
u+0293C		~						\curvearrowrightminus	top arc clockwise arrow with minus
U+0293D		戶						\curvearrowleftplus	top arc anticlockwise arrow with plus

USV	M	S	Е	P	D	L	G	Macro	Description
U+0293E		N						\cwundercurvearrow	lower right semicircular clockwise arrow
U+0293F		G						\ccwundercurvearrow	lower left semicircular anti- clockwise arrow
U+0 2 940		Ó						\acwcirclearrow	anticlockwise closed circle arrow
U+02941		Ò						\cwcirclearrow	clockwise closed circle arrow
U+02942		→						\rightarrowshortleftarrow	rightwards arrow above short leftwards arrow
U+02943		$\leftarrow \rightarrow$						\leftarrowshortrightarrow	leftwards arrow above short rightwards arrow
u+0 2 944		↔						\shortrightarrowleftarrow	short rightwards arrow above leftwards arrow
U+02945		→						\rightarrowplus	rightwards arrow with plus below
u+02946		←						\leftarrowplus	leftwards arrow with plus below
u+02947		**						\rightarrowx	rightwards arrow through x
u+0 2 948		↔						\leftrightarrowcircle	left right arrow through small circle
U+02949		*						\twoheaduparrowcircle	upwards two-headed arrow from small circle
U+0294A								\leftrightharpoonupdown	left barb up right barb down harpoon
u+0294в		←						\leftrightharpoondownup	left barb down right barb up harpoon
u+0 2 94C		1						\updownharpoonrightleft	up barb right down barb left harpoon
U+0 2 94D		1						\updownharpoonleftright	up barb left down barb right harpoon
U+0 2 94E		∠						\leftrightharpoonupup	left barb up right barb up har- poon
U+0294F		ţ						\updownharpoonrightright	up barb right down barb right harpoon

USV	M	S	Е	P	D	L	G	Macro	Description
u+02950		$\overline{}$						\leftrightharpoondowndown	left barb down right barb down harpoon
u+02951		1						\updownharpoonleftleft	up barb left down barb left harpoon
u+02952		 						\barleftharpoonup	leftwards harpoon with barb up to bar
u+02953		-\ I						\rightharpoonupbar	rightwards harpoon with barb up to bar
u+02954		Ŧ						\barupharpoonright	upwards harpoon with barb right to bar
u+02955		ļ						\downharpoonrightbar	downwards harpoon with barb right to bar
u+02956		⇤						\barleftharpoondown	leftwards harpoon with barb down to bar
u+02957								\rightharpoondownbar	rightwards harpoon with barb down to bar
u+02958		1						\barupharpoonleft	upwards harpoon with barb left to bar
u+02959		1						\downharpoonleftbar	downwards harpoon with barb left to bar
u+0295A		4						\leftharpoonupbar	leftwards harpoon with barb up from bar
u+0295в		⊢						\barrightharpoonup	rightwards harpoon with barb up from bar
u+0295C		1						\upharpoonrightbar	upwards harpoon with barb right from bar
u+0295D		Ţ						\bardownharpoonright	downwards harpoon with barb right from bar
u+0295E		\leftarrow						\leftharpoondownbar	leftwards harpoon with barb down from bar
u+0295F		\vdash						\barrightharpoondown	rightwards harpoon with barb down from bar
u+02960		1						\upharpoonleftbar	upwards harpoon with barb left from bar

USV	M	S	E	P	D	L	G	Macro	Description
U+02961		1						\bardownharpoonleft	downwards harpoon with barb left from bar
u+0 2 962		\(\)						\leftharpoonsupdown	leftwards harpoon with barb up above leftwards harpoon with barb down
u+0 2 963		11						\upharpoonsleftright	upwards harpoon with barb left beside upwards harpoon with barb right
u+0 2 964		\Rightarrow						\rightharpoonsupdown	rightwards harpoon with barb up above rightwards harpoon with barb down
u+02965		1						\downharpoonsleftright	downwards harpoon with barb left beside downwards harpoon with barb right
u+02966		\(\leftrightharpoonsup	leftwards harpoon with barb up above rightwards harpoon with barb up
u+0 2 967		=						\leftrightharpoonsdown	leftwards harpoon with barb down above rightwards har- poon with barb down
u+0 2 968								\rightleftharpoonsup	rightwards harpoon with barb up above leftwards harpoon with barb up
u+0 2 969		=						\rightleftharpoonsdown	rightwards harpoon with barb down above leftwards harpoon with barb down
u+0296a		=						\leftharpoonupdash	leftwards harpoon with barb up above long dash
u+0296в		=						\dashleftharpoondown	leftwards harpoon with barb down below long dash
u+0296c		\Rightarrow						\rightharpoonupdash	rightwards harpoon with barb up above long dash
u+0 2 96d		=						\dashrightharpoondown	rightwards harpoon with barb down below long dash
u+0 2 96E		11						\updownharpoonsleftright	upwards harpoon with barb left beside downwards harpoon with barb right
u+0 2 96ғ		11						\downupharpoonsleftright	downwards harpoon with barb left beside upwards harpoon with barb right

USV	M	S	Е	P	D	L	G	Macro	Description
U+02970		=						\rightimply	right double arrow with rounded head
U+02971		≕				⋾		\equalrightarrow	equals sign above rightwards arrow
U+02972		$\stackrel{\sim}{\longrightarrow}$				$\stackrel{\sim}{\longrightarrow}$		\similarrightarrow	tilde operator above rightwards arrow
U+02973		<=				←		\leftarrowsimilar	leftwards arrow above tilde operator
u+0 2 974		⇒				⇒		\rightarrowsimilar	rightwards arrow above tilde operator
u+0 2 975		≅				≅		\rightarrowapprox	rightwards arrow above almost equal to
u+02976		\$						\ltlarr	less-than above leftwards arrow
u+02977		€						\leftarrowless	leftwards arrow through less-than
u+02978		≥						\gtrarr	greater-than above rightwards arrow
U+0 2 979		Ş						\subrarr	subset above rightwards arrow
U+0297A		€						\leftarrowsubset	leftwards arrow through subset
U+0297B		⊋						\suplarr	superset above leftwards arrow
U+0 2 97C		⊱						\leftfishtail	left fish tail
U+0297D		\dashv						\rightfishtail	right fish tail
u+0 2 97E		Υ						\upfishtail	up fish tail
U+0297F		Τ						\downfishtail	down fish tail
u+02982		0				0		\typecolon	z notation type colon
U+0 2 9CE		Ø						\rtriltri	right triangle above left triangle
U+0 2 9CF		⊲∣						\ltrivb	left triangle beside vertical bar
U+029D0		⊳						\vbrtri	vertical bar beside right triangle

USV	M	S	Е	P	D	L	G	Macro	Description
U+029D1		M						\lfbowtie	left black bowtie
U+029D2		M						\rfbowtie	right black bowtie
U+029D3		H						\fbowtie	black bowtie
u+029D4		K						\lftimes	left black times
U+029D5		×						\rftimes	right black times
u+0 2 9DF		⊶						\dualmap	double-ended multimap
U+0 2 9E1		⊴						\lrtriangleeq	increases as
U+029E3		#						\epars1	equals sign and slanted parallel
u+029E4		$\widetilde{\#}$						\smepars1	equals sign and slanted parallel with tilde above
u+029E5		#						\eqvpars1	identical to and slanted parallel
u+0 2 9E6		Ħ						\gleichstark	gleich stark
u+0 2 9F4		⇒						\ruledelayed	rule-delayed
U+02A59		×						\veeonwedge	logical or overlapping logical and
u+02a66		=						\eqdot	equals sign with dot below
u+02a67		≐						\dotequiv	identical with dot above
u+02A68		#						\equivVert	triple horizontal bar with dou- ble vertical stroke
u+02A69		#						\equivVvert	triple horizontal bar with triple vertical stroke
u+02a6a		÷					÷	\dotsim	tilde operator with dot above
U+02A6B		∻					∻	\simrdots	tilde operator with rising dots
U+02A6C		≋					æ	\simminussim	similar minus similar
u+02a6d		≐					≐	\congdot	congruent with dot above

USV	M	S	Е	Р	D	L	G	Macro	Description
U+02A6E		*						\asteq	equals with asterisk
u+02A6f		ê						\hatapprox	almost equal to with circumflex accent
U+02A70		≊					≅	\approxeqq	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		≪					«	\ltcir	less-than with circle inside
U+02A7A		≫					>	\gtcir	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	\leq	<	€	\leq	€	€	«	\leqslant ^(a)	less-than or slanted equal to
U+02A7E	≽	≽	≽	≽	≥	≽	≽	$\verb {geqslant}^{(a)}$	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
U+02A82		≽						\gesdoto	greater-than or slanted equal to with dot above
u+02a83		ዿ						\lesdotor	less-than or slanted equal to with dot above right

USV	M	S	E	Р	D	L	G	Macro	Description
U+02A84		≽						\gesdotol	greater-than or slanted equal to with dot above left
u+02a85	≨	≨	≨	≨	≨		≨	${\tt \label{lessapprox}}^{(a)}$	less-than or approximate
u+02a86	≷	≋	⋛	⋛	≋		≷	$\verb \gtrapprox ^{(a)}$	greater-than or approximate
u+02a87	≨	≨	<i>\$</i>	<i>\$</i>	≨	≨	ş	\label{lneq}	less-than and single-line not equal to
u+02A88	≥	>	⋧	<i>></i>	≱	>	>	$\mathbf{\backslash gneq}^{(a)}$	greater-than and single-line not equal to
u+02a89	<i>≨</i>	≈	≨	≤ ≉	≨		≨	${\tt \label{lapprox}}^{(a)}$	less-than and not approximate
u+02a8a	⋧	>≉	> ≉	> ≉	⋧		> _≈	$\verb \gnapprox ^{(a)}$	greater-than and not approximate
u+02A8b	\leq	≤ 	\(\)	\leq	VIII			$\verb \label{lesseqqgtr} $	less-than above double-line equal above greater-than
u+02A8c	\geq	>IIV	>∥\/	\geq	NIIV			$\verb \gtreqqless ^{(a)}$	greater-than above double-line equal above less-than
U+02A8D		≦					≦	\lsime	less-than above similar or equal
U+02A8E		≥					≥	\gsime	greater-than above similar or equal
u+02A8f		\approx					Ş	\lsimg	less-than above similar above greater-than
u+02A90		≥ ≥					>>	\gsiml	greater-than above similar above less-than
u+02A91		\leq						\1gE	less-than above greater-than above double-line equal
U+02A92		\geq						\glE	greater-than above less-than above double-line equal
U+02A93		\						\lesges	less-than above slanted equal above greater-than above slanted equal
u+0 2 A94		////						\gesles	greater-than above slanted equal above less-than above slanted equal
U+02A95	<	<	<	<	<			$\verb \eqslantless ^{(a)}$	slanted equal to or less-than

USV	M	S	E	P	D	L	G	Macro	Description
U+02A96	≽	≽	≽	≽	>			$\verb eqslantgtr^{(a)} $	slanted equal to or greater-than
u+02A97		€						\elsdot	slanted equal to or less-than with dot inside
u+02a98		≽						\egsdot	slanted equal to or greater-than with dot inside
u+02a99		₹						\eqqless	double-line equal to or less-than
u+02A9A		=						\eqqgtr	double-line equal to or greater-than
u+02a9b		1						\eqqslantless	double-line slanted equal to or less-than
u+02A9C		\geqslant						\eqqslantgtr	double-line slanted equal to or greater-than
U+02A9D		~						\simless	similar or less-than
U+02A9E		~						\simgtr	similar or greater-than
u+02A9F		<u>≃</u>						\simlE	similar above less-than above equals sign
U+02AA0		~ <u></u>						\simgE	similar above greater-than above equals sign
U+02AA1		«						\Lt	double nested less-than
U+02AA2		≽						\Gt	double nested greater-than
U+02AA3		<u>«</u>						\partialmeetcontraction	double less-than with underbar
U+02AA4		×						\glj	greater-than overlapping less- than
U+02AA5		×						\gla	greater-than beside less-than
u+02aa6		\triangleleft						\ltcc	less-than closed by curve
U+02AA7		\triangleright						\gtcc	greater-than closed by curve
U+02AA8		$ \lozenge $						\lescc	less-than closed by curve above slanted equal
U+02AA9		\triangleright						\gescc	greater-than closed by curve above slanted equal

USV	M	S	Е	P	D	L	G	Macro	Description
U+02AAA		<						\smt	smaller than
U+O2AAB		>						\lat	larger than
U+02AAC		≤						\smte	smaller than or equal to
U+02AAD		≥						\late	larger than or equal to
U+02AAE		≘					≘	\bumpeqq	equals sign with bumpy above
U+02AAF	\preceq	≤	≼	\leq	≤	\preceq	≼	$\texttt{\preceq}^{(p)}$	precedes above single-line equals sign
U+02ABO	≽	≥	≥	≥	≥	≽	≽	$\scalebox{succeq}^{(p)}$	succeeds above single-line equals sign
U+02AB1		⋨	⋨			⋨	⋨	\precneq	precedes above single-line not equal to
U+02AB2		>	≽			≿	≽	\succneq	succeeds above single-line not equal to
U+02AB3		≦	≅			≚	≚	\preceqq	precedes above equals sign
U+02AB4		≧	≧			≽	≧	\succeqq	succeeds above equals sign
U+02AB5		≨	≨			¥	≨	$\verb \precneqq ^{(a)}$	precedes above not equal to
u+02ab6		≽	¥			`	≱	$\scalebox{succneqq}^{(a)}$	succeeds above not equal to
U+02AB7		≾ ≋	¥				⋨	$\verb \precapprox ^{(a)}$	precedes above almost equal to
U+02AB8		X≈	≿ ≋				≿	$\sl succapprox^{(a)}$	succeeds above almost equal to
U+02AB9		¥ ≉	¥				**	$\verb \precnapprox ^{(a)}$	precedes above not almost equal to
U+02ABA			≿ ≉				≽	$\scalebox{"succnapprox"}^{(a)}$	succeeds above not almost equal to
U+O2ABB		*					*	\Prec	double precedes
U+02ABC		>>					>>	\Succ	double succeeds
U+02ABD		c					C	\subsetdot	subset with dot
U+02ABE		∍					Ð	\supsetdot	superset with dot

USV	M	S	Е	P	D	L	G	Macro	Description
U+O2ABF		Ţ						\subsetplus	subset with plus sign below
U+0 2 AC0		⊋						\supsetplus	superset with plus sign below
U+02AC1		×						\submult	subset with multiplication sign below
U+02AC2		ž						\supmult	superset with multiplication sign below
U+02AC3		≐						\subedot	subset of or equal to with dot above
U+02AC4		≐						\supedot	superset of or equal to with dot above
U+02AC5		≦	⊆				⊊	$\verb \subseteqq ^{(a)}$	subset of above equals sign
u+02ac6		⊇	\supseteq				⊇	$\verb \supseteqq ^{(a)}$	superset of above equals sign
U+02AC7		≲					Ç	\subsim	subset of above tilde operator
u+02ac8		⊋					⊋	\supsim	superset of above tilde operator
U+02AC9		C≋					Ç	\subsetapprox	subset of above almost equal to
U+02ACA		≋					⊋	\supsetapprox	superset of above almost equal to
U+02ACB		⊊	Ş				⊊	$\verb \subsetneqq ^{(a)}$	subset of above not equal to
U+02ACC		⊋	⊋				⊋	$\verb \supsetneqq ^{(a)}$	superset of above not equal to
U+02ACD								\lsqhook	square left open box operator
U+02ACE								\rsqhook	square right open box operator
U+02ACF		О						\csub	closed subset
U+02AD0		D						\csup	closed superset
U+02AD1		□						\csube	closed subset or equal to
U+02AD2		₽						\csupe	closed superset or equal to
U+02AD3		S						\subsup	subset above superset

USV	M	S	Е	Р	D	L	G	Macro	Description
U+02AD4		2						\supsub	superset above subset
U+02AD5		E						\subsub	subset above subset
u+02ad6		n						\supsup	superset above superset
u+02AD7		C						\suphsub	superset beside subset
U+02AD8		€						\supdsub	superset beside and joined by dash with subset
u+02AD9		Ш						\forkv	element of opening downwards
u+02ada		Ψ						\topfork	pitchfork with tee top
U+02ADB		ψ						\mlcp	transversal intersection
U+02ADC		水						\forks	forking
u+02ADD		Ψ						\forksnot	nonforking
U+02ADE		Н						\shortlefttack	short left tack
u+o2adf		т						\shortdowntack	short down tack
U+0 2 AE0		工						\shortuptack	short up tack
U+02AE2		E						\vDdash	vertical bar triple right turnstile
U+02AE3		⊣I						\dashV	double vertical bar left turnstile
u+02ae4		≓						\Dashv	vertical bar double left turnstile
U+02AE5		≓I						\DashV	double vertical bar double left turnstile
U+02AE6		⊬						\varVdash	long dash from left member of double vertical
u+02ae7		ᆕ						\Barv	short down tack with overbar
U+02AE8		±						\vBar	short up tack with underbar
U+02AE9		÷						\vBarv	short up tack above short down tack

USV	M	S	E	P	D	L	G	Macro	Description
U+02AEA		π						\barV	double down tack
U+02AEB		Ш						\Vbar	double up tack
U+02AEC		∍						\Not	double stroke not sign
U+02AED		F						\bNot	reversed double stroke not sign
U+02AEE		+						\revnmid	does not divide with reversed negation slash
U+02AEF		Ŷ						\cirmid	vertical line with circle above
U+02AFO		Ŷ						\midcir	vertical line with circle below
U+02AF2		#						\nhpar	parallel with horizontal stroke
U+02AF3		#						\parsim	parallel with tilde operator
U+02AF7		«						\lllnest	stacked very much less-than
u+02af8		≫						\gggnest	stacked very much greater-than
U+02AF9		\(\left\)						\leqqslant	double-line slanted less-than or equal to
U+02AFA		\geqslant						\geqqslant	double-line slanted greater-than or equal to
U+02B30		(0 -				↔-		\circleonleftarrow	left arrow with small circle
U+02B31	\(\begin{array}{c} \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ 	₽	Ħ	$\qquad \qquad \qquad \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	Ħ	\E	₽	\leftthreearrows	three leftwards arrows
U+02B32		⊕						\leftarrowonoplus	left arrow with circled plus
u+02B33	₩	~~~~	***	₩.	₩.		← ~~	\longleftsquigarrow	long leftwards squiggle arrow
U+02B34		« +						\nvtwoheadleftarrow	leftwards two-headed arrow with vertical stroke
U+02B35		≪Ⅱ						\nVtwoheadleftarrow	leftwards two-headed arrow with double vertical stroke
u+0 2 в36		« -1						\twoheadmapsfrom	leftwards two-headed arrow from bar
U+02B37		« <						\twoheadleftdbkarrow	leftwards two-headed triple- dash arrow

USV	M	S	E	P	D	L	G	Macro	Description
u+02в38		← ····						\leftdotarrow	leftwards arrow with dotted stem
U+02B39		(\nvleftarrowtail	leftwards arrow with tail with vertical stroke
U+02B3A		₩						\nVleftarrowtail	leftwards arrow with tail with double vertical stroke
U+02B3B		~~						\twoheadleftarrowtail	leftwards two-headed arrow with tail
U+0 2 B3C		« (\nvtwoheadleftarrowtail	leftwards two-headed arrow with tail with vertical stroke
U+02B3D		₩						\nVtwoheadleftarrowtail	leftwards two-headed arrow with tail with double vertical stroke
U+02B3E		(X						\leftarrowx	leftwards arrow through x
U+02B3F		←	~					\leftcurvedarrow	wave arrow pointing directly left
U+02B40		⇐						\equalleftarrow	equals sign above leftwards arrow
U+0 2 B41		←						\bsimilarleftarrow	reverse tilde operator above leftwards arrow
U+02B42		€						\leftarrowbackapprox	leftwards arrow above reverse almost equal to
U+02B43		>>						\rightarrowgtr	rightwards arrow through greater-than
U+02B44		⇒						\rightarrowsupset	rightwards arrow through subset
U+02B45							€	\LLeftarrow	leftwards quadruple arrow
U+02B46		∌					⇒	\RRightarrow	rightwards quadruple arrow
U+02B47		$\stackrel{\sim}{\longrightarrow}$						\bsimilarrightarrow	reverse tilde operator above rightwards arrow
u+0 2 в48		≆						\rightarrowbackapprox	rightwards arrow above reverse almost equal to
u+0 2 B49		<~						\similarleftarrow	tilde operator above leftwards arrow

USV	M	S	E	P	D	L	G	Macro	Description
U+02B4A		€≅						\leftarrowapprox	leftwards arrow above almost equal to
U+02B4B		€						\leftarrowbsimilar	leftwards arrow above reverse tilde operator
U+02B4C		⇒						\rightarrowbsimilar	righttwards arrow above reverse tilde operator

15 Alphabetical symbols, \mathalpha

15.1 Normal weight

15.1.1 Upright Greek, uppercase

USV	M	S	Е	Р	D	L	G	Macro	Description
U+00391	A	A	A	A	A	A	A	\mupAlpha	capital alpha, greek
U+00392	В	В	В	В	В	В	В	\mupBeta	capital beta, greek
U+00393	Γ	Γ	Γ	Γ	Γ	Γ	Γ	\mupGamma	capital gamma, greek
u+00394	Δ	Δ	Δ	Δ	Δ	Δ	Δ	\mupDelta	capital delta, greek
U+00395	E	E	Е	E	E	E	E	\mupEpsilon	capital epsilon, greek
u+00396	\mathbf{Z}	Z	Z	Z	Z	Z	Z	\mupZeta	capital zeta, greek
U+00397	Н	Н	Н	Н	Н	Н	Н	\mupEta	capital eta, greek
u+00398	Θ	Θ	Θ	Θ	Θ	Θ	Θ	\mupTheta	capital theta, greek
U+00399	Ι	I	I	Ι	Ι	I	Ι	\mupIota	capital iota, greek
U+0039A	K	K	K	K	K	K	K	\mupKappa	capital kappa, greek
и+0039в	Λ	Λ	Λ	Λ	Λ	Λ	Λ	\mupLambda	capital lambda, greek
U+0039C	M	M	M	M	M	M	M	\mupMu	capital mu, greek
U+0039D	N	N	N	N	N	N	N	\mupNu	capital nu, greek
U+0039E	Ξ	Ξ	Ξ	Ξ	Ξ	[I]	Ξ	\mupXi	capital xi, greek
U+0039F	О	0	0	O	O	O	O	\mupOmicron	capital omicron, greek
U+003A0	П	П	П	П	П	П	П	\mupPi	capital pi, greek
U+003A1	P	P	P	P	P	P	P	\mupRho	capital rho, greek
U+003A3	Σ	Σ	Σ	Σ	Σ	Σ	Σ	\mupSigma	capital sigma, greek
U+003A4	Т	Т	T	T	Т	Т	Т	\mupTau	capital tau, greek
U+003A5	Υ	Y	Υ	Y	Υ	Y	Υ	\mupUpsilon	capital upsilon, greek

USV	M	S	E	P	D	L	G	Macro	Description
u+003A6	Φ	Φ	Φ	Φ	Φ	Φ	Φ	\mupPhi	capital phi, greek
U+003A7	X	X	X	X	X	X	X	\mupChi	capital chi, greek
u+003a8	Ψ	Ψ	Ψ	Ψ	Ψ	Ψ	Ψ	\mupPsi	capital psi, greek
U+003A9	Ω	Ω	Ω	Ω	Ω	Ω	Ω	\mup0mega	capital omega, greek

15.1.2 Upright Greek, lowercase

USV	M	S	Е	P	D	L	G	Macro	Description
U+003В1	α	α	α	α	α	α	α	\mupalpha	small alpha, greek
U+003B2	β	β	β	β	β	β	β	\mupbeta	small beta, greek
и+003в3	γ	γ	Υ	γ	γ	γ	γ	\mupgamma	small gamma, greek
U+003B4	δ	δ	δ	δ	δ	δ	8	\mupdelta	small delta, greek
U+003B5	ε	ε	ε	3	3	3	٤	\mupvarepsilon	rounded small varepsilon, greek
и+003в6	ζ	ζ	ζ	ζ	ζ	ζ	ζ	\mupzeta	small zeta, greek
и+003в7	η	η	η	η	η	η	η	\mupeta	small eta, greek
и+003в8	θ	θ	θ	θ	θ	θ	θ	\muptheta	straight theta, small theta, greek
и+003в9	ι	ι	ι	ι	ι	ι	ι	\mupiota	small iota, greek
U+003BA	κ	κ	К	К	K	κ	κ	\mupkappa	small kappa, greek
и+003вв	λ	λ	λ	λ	λ	λ	λ	\muplambda	small lambda, greek
U+003BC	μ	μ	μ	μ	μ	μ	μ	\mupmu	small mu, greek
U+003BD	ν	ν	ν	ν	ν	ν	ν	\mupnu	small nu, greek
u+003ве	ξ	ξ	ξ	ξ	ξ	ξ	ξ	\mupxi	small xi, greek
u+003вғ	O	0	0	0	O	O	0	\mupomicron	small omicron, greek

USV	M	S	Е	Р	D	L	G	Macro	Description
u+003c0	π	π	π	π	П	π	π	\muppi	small pi, greek
U+003C1	ρ	ρ	ρ	ρ	ρ	ρ	ρ	\muprho	small rho, greek
U+003C2	ς	ς	ς	ς	ς	ς	ς	\mupvarsigma	terminal sigma, greek
U+003C3	σ	σ	σ	σ	σ	σ	σ	\mupsigma	small sigma, greek
U+003C4	τ	τ	τ	τ	τ	τ	τ	\muptau	small tau, greek
U+003C5	υ	υ	υ	υ	υ	υ	υ	\mupupsilon	small upsilon, greek
u+003c6	φ	φ	φ	φ	φ	φ	φ	\mupvarphi	curly or open small phi, greek
U+003C7	χ	χ	χ	χ	χ	χ	χ	\mupchi	small chi, greek
U+003c8	ψ	ψ	ψ	ψ	Ψ	ψ	ψ	\muppsi	small psi, greek
U+003C9	ω	ω	ω	ω	ω	ω	ω	\mupomega	small omega, greek
U+003D1	θ	д	θ	θ	θ	θ	Э	\mupvartheta	/vartheta - curly or open theta
U+003D5	ф	ф	ф	ф	ф	ф	ф	\mupphi	/straightphi - small phi, greek
U+003D6	\Box	σ	0	ω	ω	۵	ā	\mupvarpi	rounded small pi (pomega), greek
U+003DC		F				F		\upDigamma	capital digamma
U+003DD		F	F			F		\updigamma	old greek small letter digamma
U+003F0	N	κ	κ	κ	χ	и	к	\mupvarkappa	rounded small kappa, greek
U+003F1	9	ę	6	Q	Q	6	6	\mupvarrho	rounded small rho, greek
U+003F4	Θ	Θ	θ	θ	θ	θ	Θ	\mupvarTheta	greek capital theta symbol
U+003F5	ϵ	ε	ϵ	ϵ	ϵ	ϵ	E	\mupepsilon	greek lunate varepsilon symbol

15.1.3 Italic, Latin, uppercase

USV	M	S	Е	Р	D	L	G	Macro	Description
U+1D434	A	A	A	A	A	A	A	\mitA	mathematical italic capital a
U+1D435	B	B	B	В	B	В	В	\mitB	mathematical italic capital b
u+1D436	C	C	C	C	C	C	C	\mitC	mathematical italic capital c
U+1D437	D	D	D	D	D	D	D	\mitD	mathematical italic capital d
U+1D438	E	E	E	Е	E	E	E	\mitE	mathematical italic capital e
U+1D439	F	F	F	F	F	F	F	\mitF	mathematical italic capital f
U+1D43A	G	G	G	G	G	G	G	\mitG	mathematical italic capital g
U+1D43B	H	Н	Н	Н	H	Н	Н	\mitH	mathematical italic capital h
U+1D43C	I	I	I	I	I	I	I	\mitI	mathematical italic capital i
U+1D43D	J	J	J	J	J	J	J	\mitJ	mathematical italic capital j
U+1D43E	K	K	K	K	K	K	K	\mitK	mathematical italic capital k
U+1D43F	L	L	L	L	L	L	L	\mitL	mathematical italic capital l
U+1D440	M	M	M	M	M	M	M	\mitM	mathematical italic capital m
U+1D441	N	N	N	N	N	N	N	\mitN	mathematical italic capital n
U+1D442	0	0	0	0	0	0	0	\mit0	mathematical italic capital o
U+1D443	P	P	P	P	P	P	P	\mitP	mathematical italic capital p
U+1D444	Q	Q	Q	Q	Q	Q	Q	\mitQ	mathematical italic capital q
U+1D445	R	R	R	R	R	R	R	\mitR	mathematical italic capital r
U+1D446	S	S	S	S	S	S	S	\mitS	mathematical italic capital s
U+1D447	T	T	T	T	T	T	T	\mitT	mathematical italic capital t
u+1D448	U	U	U	U	U	U	U	\mitU	mathematical italic capital u
u+1D449	V	V	V	V	V	V	V	\mitV	mathematical italic capital v

USV	M	S	E	P	D	L	G	Macro	Description
U+1D44A	W	W	W	W	W	W	W	\mitW	mathematical italic capital w
U+1D44B	X	X	X	X	X	X	X	\mitX	mathematical italic capital x
U+1D44C	Y	Y	Y	Υ	Y	Y	Y	\mitY	mathematical italic capital y
U+1D44D	Z	Z	Z	Z	Z	Z	Z	\mitZ	mathematical italic capital z

15.1.4 Italic, Latin, lowercase

USV	M	S	Е	P	D	L	G	Macro	Description
U+1D44E	a	а	a	а	а	а	а	\mita	mathematical italic small a
U+1D44F	b	b	b	b	b	b	b	\mitb	mathematical italic small b
U+1D450	c	c	c	С	С	С	С	\mitc	mathematical italic small c
U+1D451	d	d	d	d	d	d	d	\mitd	mathematical italic small d
U+1D452	e	e	e	e	e	e	е	\mite	mathematical italic small e
U+1D453	f	f	f	f	f	f	f	\mitf	mathematical italic small f
U+1D454	g	g	g	8	g	g	g	\mitg	mathematical italic small g
u+1D456	i	i	i	i	i	i	i	\miti	mathematical italic small i
U+1D457	j	j	j	j	j	j	j	\mitj	mathematical italic small j
U+1D458	k	k	k	k	k	k	k	\mitk	mathematical italic small k
U+1D459	l	l	l	1	1	l	l	\mitl	mathematical italic small l
U+1D45A	m	m	m	m	m	m	m	\mitm	mathematical italic small m
U+1D45B	n	n	n	n	n	n	n	\mitn	mathematical italic small n
u+1D45C	0	0	0	0	0	0	0	\mito	mathematical italic small o
U+1D45D	p	p	p	р	р	p	Þ	\mitp	mathematical italic small p

USV	M	S	Е	P	D	L	G	Macro	Description
U+1D45E	q	q	q	q	q	q	q	\mitq	mathematical italic small q
U+1D45F	r	r	r	r	r	r	r	\mitr	mathematical italic small r
U+1D460	s	S	s	s	S	s	S	\mits	mathematical italic small s
u+1D461	t	t	t	t	t	t	t	\mitt	mathematical italic small t
U+1D462	u	и	и	и	и	u	и	\mitu	mathematical italic small u
U+1D463	v	υ	υ	v	υ	ν	v	\mitv	mathematical italic small v
u+1D464	w	w	w	w	w	w	w	\mitw	mathematical italic small w
u+1D465	x	x	x	x	X	x	х	\mitx	mathematical italic small x
U+1D466	y	у	у	y	у	у	y	\mity	mathematical italic small y
u+1D467	z	Z	z	z	z	z	z	\mitz	mathematical italic small z

15.1.5 Italic Greek, uppercase

USV	M	S	E	P	D	L	G	Macro	Description
U+1D6E2	A	A	A	A	A	A	A	\mitAlpha	mathematical italic capital alpha
U+1D6E3	B	В	В	В	B	В	В	\mitBeta	mathematical italic capital beta
u+1d6e4	Γ	Γ	Γ	Γ	Γ	Γ	Γ	\mitGamma	mathematical italic capital gamma
u+1D6E5	Δ	Δ	Δ	Δ	Δ	Δ	Δ	\mitDelta	mathematical italic capital delta
U+1D6E6	E	E	E	E	E	E	E	\mitEpsilon	mathematical italic capital epsilon
u+1D6E7	Z	Z	Z	Z	Z	Z	Z	\mitZeta	mathematical italic capital zeta
U+1D6E8	H	Н	Н	Н	Н	Н	Н	\mitEta	mathematical italic capital eta
u+1D6E9	Θ	Θ	Θ	Θ	Θ	Θ	Θ	\mitTheta	mathematical italic capital theta
u+1d6ea	I	I	I	I	I	I	I	\mitIota	mathematical italic capital iota

USV	M	S	Е	Р	D	L	G	Macro	Description
U+1D6EB	K	K	K	K	K	K	K	\mitKappa	mathematical italic capital kappa
u+1d6ec	Λ	Λ	Λ	Λ	Λ	Λ	Λ	\mitLambda	mathematical italic capital lambda
U+1D6ED	M	M	M	M	M	M	M	\mitMu	mathematical italic capital mu
U+1D6EE	N	N	N	N	N	N	N	\mitNu	mathematical italic capital nu
U+1D6EF	Ξ	Ξ	Ξ	Ξ	Ξ	Ξ	Ξ	\mitXi	mathematical italic capital xi
u+1D6F0	0	0	0	0	0	0	0	\mitOmicron	mathematical italic capital omicron
U+1D6F1	П	П	П	П	П	П	П	\mitPi	mathematical italic capital pi
U+1D6F2	P	P	P	P	P	P	P	\mitRho	mathematical italic capital rho
u+1D6F3	Θ	θ	θ	θ	θ	θ	θ	\mitvarTheta	mathematical italic capital theta symbol
u+1D6F4	Σ	Σ	Σ	Σ	Σ	Σ	Σ	\mitSigma	mathematical italic capital sigma
U+1D6F5	T	T	T	T	T	T	T	\mitTau	mathematical italic capital tau
U+1D6F6	Υ	Υ	Υ	Y	Υ	Y	Υ	\mitUpsilon	mathematical italic capital upsilon
u+1D6F7	Φ	Φ	Φ	Φ	Φ	Φ	Φ	\mitPhi	mathematical italic capital phi
U+1D6F8	X	X	X	X	X	X	X	\mitChi	mathematical italic capital chi
u+1D6F9	Ψ	Ψ	Ψ	Ψ	Ψ	Ψ	Ψ	\mitPsi	mathematical italic capital psi
u+1d6fa	Ω	Ω	Ω	Ω	Ω	Ω	Ω	\mitOmega	mathematical italic capital omega

15.1.6 Italic Greek, lowercase

usv	M	S	Е	Р	D	L	G	Macro	Description
U+1D6FC	α	α	α	α	α	α	α	\mitalpha	mathematical italic small alpha
U+1D6FD	β	β	β	β	β	β	β	\mitbeta	mathematical italic small beta

USV	M	S	Е	Р	D	L	G	Macro	Description
U+1D6FE	γ	γ	γ	γ	γ	γ	γ	\mitgamma	mathematical italic small gamma
U+1D6FF	δ	δ	δ	δ	δ	δ	δ	\mitdelta	mathematical italic small delta
U+1D700	ε	ε	ε	ε	ε	ε	ε	\mitvarepsilon	mathematical italic small varepsilon
U+1D701	ζ	ζ	ζ	ζ	ζ	ζ	ζ	\mitzeta	mathematical italic small zeta
U+1D702	η	η	η	η	η	η	η	\miteta	mathematical italic small eta
U+1D703	θ	θ	θ	θ	θ	θ	θ	\mittheta	mathematical italic small theta
U+1D704	ι	ι	ι	ι	ι	l	l	\mitiota	mathematical italic small iota
U+1D705	κ	κ	κ	К	K	κ	κ	\mitkappa	mathematical italic small kappa
u+1D706	λ	λ	λ	λ	λ	λ	λ	\mitlambda	mathematical italic small lambda
U+1D707	μ	μ	μ	μ	μ	μ	μ	\mitmu	mathematical italic small mu
U+1D708	ν	ν	ν	ν	ν	ν	ν	\mitnu	mathematical italic small nu
U+1D709	ξ	ξ	ξ	ξ	ξ	ξ	ξ	\mitxi	mathematical italic small xi
U+1D70A	0	0	0	0	0	0	0	\mitomicron	mathematical italic small omi- cron
U+1D70B	π	π	π	π	П	π	π	\mitpi	mathematical italic small pi
U+1D70C	ho	ρ	ρ	ρ	ρ	ρ	p	\mitrho	mathematical italic small rho
U+1D70D	ς	ς	ς	ς	ς	ς	ς	\mitvarsigma	mathematical italic small final sigma
U+1D70E	σ	σ	σ	σ	σ	σ	σ	\mitsigma	mathematical italic small sigma
U+1D70F	au	τ	τ	τ	τ	τ	τ	\mittau	mathematical italic small tau
U+1D710	v	υ	υ	v	υ	υ	υ	\mitupsilon	mathematical italic small upsilon
U+1D711	φ	φ	φ	φ	φ	φ	φ	\mitvarphi	mathematical italic small phi
U+1D712	χ	χ	χ	χ	χ	χ	χ	\mitchi	mathematical italic small chi

USV	M	S	Е	P	D	L	G	Macro	Description
U+1D713	ψ	ψ	ψ	ψ	Ψ	ψ	ψ	\mitpsi	mathematical italic small psi
U+1D714	ω	ω	ω	ω	ω	ω	ω	\mitomega	mathematical italic small omega
U+1D715	∂	д	д	д	д	д	д	\mitpartial	mathematical italic partial differential
U+1D716	ϵ	ε	ϵ	ϵ	ϵ	ϵ	ϵ	\mitepsilon	mathematical italic varepsilon symbol
U+1D717	ϑ	θ	θ	θ	θ	θ	Э	\mitvartheta	mathematical italic theta symbol
U+1D718	×	х	κ	и	X	u	x	\mitvarkappa	mathematical italic kappa symbol
U+1D719	ϕ	φ	φ	φ	φ	ϕ	ϕ	\mitphi	mathematical italic phi symbol
U+1D71A	Q	ę	Q	Q	Q	Q	е	\mitvarrho	mathematical italic rho symbol
U+1D71B	$\overline{\omega}$	ϖ	_@	ω	$\overline{\omega}$	Ø	Ø	\mitvarpi	mathematical italic pi symbol

15.1.7 Script, Latin, uppercase

USV	M	S	Е	Р	D	L	G	Macro	Description
U+1D49C	\mathcal{A}	\mathcal{A}	A	A	A	\mathcal{A}	A	\mscrA	mathematical script capital a
u+1D49E	C	$\mathcal C$	C	С	\mathcal{C}	\mathscr{C}	\mathscr{C}	\mscrC	mathematical script capital c
u+1D49F	\mathcal{D}	\mathcal{D}	D	D	D	D	20	\mscrD	mathematical script capital d
U+1D4A2	\mathcal{G}	9	\mathscr{G}	G	\mathcal{G}	${\mathscr G}$	\mathscr{G}	\mscrG	mathematical script capital g
U+1D4A5	\mathcal{J}	\mathcal{J}	J	J	J	J	\mathcal{J}	\mscrJ	mathematical script capital j
u+1d4a6	$\mathcal K$	$\mathcal K$	\mathcal{K}	\mathcal{K}	κ	${\mathscr K}$	${\mathscr K}$	\mscrK	mathematical script capital k
u+1D4A9	\mathcal{N}	\mathcal{N}	N	\mathcal{N}	N	N	\mathcal{N}	\mscrN	mathematical script capital r
u+1d4aa	0	O	©	0	O	0	0	\mscr0	mathematical script capital c
u+1D4ab	${\mathcal P}$	${\cal P}$	Đ	P	P	P	<i>9</i> o	\mscrP	mathematical script capital p

USV	M	S	Е	Р	D	L	G	Macro	Description
U+1D4AC	Q	Q	2	Q	Q	Q	Q	\mscrQ	mathematical script capital q
U+1D4AE	S	S	S	5	S	S	S	\mscrS	mathematical script capital s
U+1D4AF	$\mathcal T$	\mathcal{F}	\mathcal{T}	T	T	\mathcal{T}	${\mathcal T}$	\mscrT	mathematical script capital t
U+1D4BO	\mathcal{U}	u	U	и	и	\mathcal{U}	\mathcal{U}	\mscrU	mathematical script capital u
U+1D4B1	ν	ν	\mathcal{V}	u	υ	V	V	\mscrV	mathematical script capital v
U+1D4B2	W	w	W	W	W	W	W	\mscrW	mathematical script capital w
U+1D4B3	\boldsymbol{x}	\boldsymbol{x}	\mathscr{X}	χ	χ	${\mathscr X}$	${\mathcal X}$	\mscrX	mathematical script capital x
U+1D4B4	y	y	¥	y	y	¥	¥	\mscrY	mathematical script capital y
U+1D4B5	\mathcal{Z}	z	\mathcal{Z}	Z	Z	${\mathcal Z}$	${\mathcal Z}$	\mscrZ	mathematical script capital z

15.1.8 Script, Latin, lowercase

USV	M	S	E	P	D	L	G	Macro	Description
u+1D4в6		а		a	a	a	a	\mscra	mathematical script small a
U+1D4B7		Б		в	ь	в	\mathscr{C}	\mscrb	mathematical script small b
U+1D4B8		c		c	c	c	c	\mscrc	mathematical script small c
U+1D4B9		d		d	d	d	d	\mscrd	mathematical script small d
u+1D4вв		f		f	f	f	f	\mscrf	mathematical script small f
U+1D4BD		ĥ		h	h	ħ	ħ	\mscrh	mathematical script small h
u+1D4ве		i		i	i	i	i	\mscri	mathematical script small i
U+1D4BF		j		j	j	j	j	\mscrj	mathematical script small j
u+1D4C0		k		k	K	k	k	\mscrk	mathematical script small k
U+1D4C1		ℓ		ℓ	l	ℓ	ℓ	\mscrl	mathematical script small l

USV	M	S	Е	P	D	L	G	Macro	Description
U+1D4C2		m		m	m	m	m	\mscrm	mathematical script small m
U+1D4C3		n		n	n	n	n	\mscrn	mathematical script small n
U+1D4C5		p		P	p	P	p	\mscrp	mathematical script small p
u+1D4C6		Ą		q	9	q	q	\mscrq	mathematical script small q
u+1D4C7		r		r	r	r	r	\mscrr	mathematical script small r
u+1D4c8		s		5	J	3	3	\mscrs	mathematical script small s
u+1D4C9		t		t	t	ŧ	t	\mscrt	mathematical script small t
u+1D4CA		и		и	и	u	u	\mscru	mathematical script small u
U+1D4CB		v		v	υ	v	v	\mscrv	mathematical script small v
U+1D4CC		w		w	w	w	w	\mscrw	mathematical script small w
U+1D4CD		x		x	x	\boldsymbol{x}	x	\mscrx	mathematical script small x
U+1D4CE		у		y	y	¥	y	\mscry	mathematical script small y
U+1D4CF		z		z	Z	z	z	\mscrz	mathematical script small z

15.1.9 Fraktur, Latin, uppercase

USV	M	S	E	P	D	L	G	Macro	Description
U+1D504	A	U	A	A	21	U	U	\mfrakA	mathematical fraktur capital a
U+1D505	\mathfrak{B}	\mfrakB	mathematical fraktur capital b						
U+1D507	D	Ð	D	D	D	D	D	\mfrakD	mathematical fraktur capital d
U+1D508	Œ	Œ	Œ	Œ	Œ	Œ	E	\mfrakE	mathematical fraktur capital e
U+1D509	\mathfrak{F}	\mfrakF	mathematical fraktur capital f						
U+1D50A	G	ß	G	G	G	ß	6	\mfrakG	mathematical fraktur capital g

USV	M	S	Е	Р	D	L	G	Macro	Description
U+1D50D	J	\mathfrak{F}	J	J	J	\mathfrak{F}	3	\mfrakJ	mathematical fraktur capital j
U+1D50E	R	R	R	R	R	R	Я	\mfrakK	mathematical fraktur capital k
U+1D50F	\mathfrak{L}	Ω	\mathfrak{L}	\mathfrak{L}	\mathfrak{L}	Ω	\mathfrak{L}	\mfrakL	mathematical fraktur capital l
U+1D510	M	M	M	M	M	M	M	\mfrakM	mathematical fraktur capital m
U+1D511	N	N	N	N	N	N	N	\mfrakN	mathematical fraktur capital n
U+1D512	D	D	D	Ð	D	D	D	\mfrak0	mathematical fraktur capital o
U+1D513	P	P	P	P	P	P	\mathfrak{P}	\mfrakP	mathematical fraktur capital p
U+1D514	Ω	Q	Ω	Ω	Ω	Q	Q	\mfrakQ	mathematical fraktur capital q
U+1D516	S	©	S	S	S	S	S	\mfrakS	mathematical fraktur capital s
U+1D517	\mathfrak{T}	T	\mathfrak{T}	\mathfrak{T}	\mathfrak{T}	T	\mathfrak{T}	\mfrakT	mathematical fraktur capital t
U+1D518	U	u	U	u	U	u	u	\mfrakU	mathematical fraktur capital u
U+1D519	V	V	V	V	V	V	\mathfrak{V}	\mfrakV	mathematical fraktur capital v
U+1D51A	W	W	W	W	W	W	W	\mfrakW	mathematical fraktur capital w
U+1D51B	\mathfrak{X}	x	\mathfrak{X}	\mathfrak{X}	\mathfrak{X}	x	X	\mfrakX	mathematical fraktur capital x
U+1D51C	Ŋ	Ŋ	Ŋ	Ŋ	Ŋ	Ŋ	Ŋ	\mfrakY	mathematical fraktur capital y

15.1.10 Fraktur, Latin, lowercase

USV	M	S	Е	P	D	L	G	Macro	Description
U+1D51E	a	a	a	a	a	a	a	\mfraka	mathematical fraktur small a
U+1D51F	b	\mathfrak{b}	b	b	b	\mathfrak{b}	b	\mfrakb	mathematical fraktur small b
U+1D520	c	c	c	c	c	c	c	\mfrakc	mathematical fraktur small c
U+1D521	б	б	ð	ð	ð	ъ	б	\mfrakd	mathematical fraktur small d

USV	M	S	Е	P	D	L	G	Macro	Description
U+1D522	e	e	e	e	e	e	e	\mfrake	mathematical fraktur small e
U+1D523	f	f	f	f	f	f	f	\mfrakf	mathematical fraktur small f
U+1D524	\mathfrak{g}	\mathfrak{g}	\mathfrak{g}	\mathfrak{g}	\mathfrak{g}	g	g	\mfrakg	mathematical fraktur small g
U+1D525	ħ	\mathfrak{h}	h	h	ħ	\mathfrak{h}	ħ	\mfrakh	mathematical fraktur small h
U+1D526	i	i	i	i	i	į	i	\mfraki	mathematical fraktur small i
U+1D527	j	j	j	j	j	ţ	j	\mfrakj	mathematical fraktur small j
U+1D528	ŧ	ŧ	ŧ	ŧ	ŧ	ŧ	ŧ	\mfrakk	mathematical fraktur small k
U+1D529	ĺ	ţ	ι	Į	ĺ	ţ	Ĭ	\mfrakl	mathematical fraktur small l
U+1D52A	m	m	m	m	m	m	m	\mfrakm	mathematical fraktur small m
U+1D52B	n	n	n	n	n	n	n	\mfrakn	mathematical fraktur small n
U+1D52C	0	o	0	0	0	o	D	\mfrako	mathematical fraktur small o
U+1D52D	p	þ	p	p	p	þ	p	\mfrakp	mathematical fraktur small p
U+1D52E	q	q	q	q	q	q	q	\mfrakq	mathematical fraktur small q
U+1D52F	r	r	r	r	r	r	r	\mfrakr	mathematical fraktur small r
U+1D530	s	ŝ	\$	s	$\mathfrak s$	ŝ	5	\mfraks	mathematical fraktur small s
U+1D531	ŧ	t	ŧ	ŧ	ŧ	t	t	\mfrakt	mathematical fraktur small t
U+1D532	u	u	u	u	u	u	u	\mfraku	mathematical fraktur small u
U+1D533	υ	b	v	v	v	b	v	\mfrakv	mathematical fraktur small v
U+1D534	w	m	w	w	w	m	w	\mfrakw	mathematical fraktur small w
U+1D535	ŗ	ŧ	ŗ	ŗ	ŗ	ŧ	x	\mfrakx	mathematical fraktur small x
U+1D536	ŋ	ŋ	ŋ	ŋ	ŋ	ŋ	ŋ	\mfraky	mathematical fraktur small y
U+1D537	3	3	3	3	3	3	3	\mfrakz	mathematical fraktur small z

15.1.11 Blackboard, Latin, uppercase

USV	M	S	Е	Р	D	L	G	Macro	Description
U+1D538	A	A	A	A	A	A	A	\BbbA	mathematical double-struck capital a
U+1D539	\mathbb{B}	B	B	\mathbb{B}	\mathbb{B}	\mathbb{B}	\mathbb{B}	\BbbB	mathematical double-struck capital b
U+1D53B	\mathbb{D}	\mathbb{D}	D	\mathbb{D}	\mathbb{D}	D	D	\BbbD	mathematical double-struck capital d
U+1D53C	E	E	E	E	E	E	E	\BbbE	mathematical double-struck capital e
U+1D53D	F	F	F	F	F	\mathbb{F}	F	\BbbF	mathematical double-struck capital f
U+1D53E	G	G	G	G	G	G	G	\BbbG	mathematical double-struck capital g
u+1D540	0		0	I	I	I	I	\BbbI	mathematical double-struck capital i
U+1D541	J	J	J	J	J	J	J	\BbbJ	mathematical double-struck capital j
U+1D542	K	K	K	\mathbb{K}	K	K	K	\BbbK	mathematical double-struck capital k
U+1D543	L	L	L	L	L	\mathbb{L}	L	\BbbL	mathematical double-struck capital l
u+1D544	M	M	M	M	M	I M	M	\BbbM	mathematical double-struck capital m
u+1D546	0	0	0	0	0	0	0	\Bbb0	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	T	\BbbT	mathematical double-struck capital t
u+1D54C	\mathbb{U}	\mathbb{U}	\mathbb{U}	\mathbb{U}	U	U	U	\BbbU	mathematical double-struck capital u
U+1D54D	\bigvee	\mathbb{V}	\mathbb{V}	\mathbb{V}	\mathbb{V}	\mathbb{V}	\mathbb{V}	\BbbV	mathematical double-struck capital v
U+1D54E	\mathbb{W}	W	W	W	W	W	W	\BbbW	mathematical double-struck capital w

USV	M	S	E	P	D	L	G	Macro	Description
U+1D54F	X	X	X	X	X	X	\mathbb{X}	\BbbX	mathematical double-struck capital x
U+1D550	Y	Y	Y	Y	Y	Y	Y	\BbbY	mathematical double-struck capital y

15.1.12 Blackboard, Latin, lowercase

USV	M	S	Е	Р	D	L	G	Macro	Description
U+1D552	0	а	а	a	a	aı	a	\Bbba	mathematical double-struck small a
U+1D553	Ь	b	b	b	Ь	lb	b	\Bbbb	mathematical double-struck small b
u+1D554	C	\mathbb{C}	C	C	C	C	С	\Bbbc	mathematical double-struck small c
U+1D555	d	d	d	d	d	d	d	\Bbbd	mathematical double-struck small d
u+1D556	e	e	e	e	e	e	e	\Bbbe	mathematical double-struck small e
U+1D557	F	f	ſ	ſ	f	f	f	\Bbbf	mathematical double-struck small f
U+1D558	${\mathbb G}$	g	90	90	g	g	g	\Bbbg	mathematical double-struck small g
u+1D559	h	h	h	h	h	h	h	\Bbbh	mathematical double-struck small h
u+1D55a	Ô	i	i	i	i	i	i	\Bbbi	mathematical double-struck small i
U+1D55B	j	j	j	j	j	j	j	\Bbbj	mathematical double-struck small j
U+1D55C	k	k	k	k	k	k	k	\Bbbk ^(a)	mathematical double-struck small k
U+1D55D	Q	1	1	1	1	1	1	\Bbbl	mathematical double-struck small l
U+1D55E	m	m	m	m	m	m	1111	\Bbbm	mathematical double-struck small m
U+1D55F	n	n	n	n	n	n	n	\Bbbn	mathematical double-struck small n

USV	M	S	Е	Р	D	L	G	Macro	Description
u+1D560	0	0	0	0	0	0	0	\Bbbo	mathematical double-struck small o
U+1D561	þ	p	\mathbb{P}	\mathbb{P}	P	p	p	\Bbbp	mathematical double-struck small p
u+1D562	Q	q	q	q	q	q	q	\Bbbq	mathematical double-struck small q
u+1D563	r	r	ľ	I°	r	r	r	\Bbbr	mathematical double-struck small r
u+1D564	\$	S	S	S	S	S	§	\Bbbs	mathematical double-struck small s
u+1D565	Ŀ	t	t	t	t	t	t	\Bbbt	mathematical double-struck small t
U+1D566	u	u	u	u	u	u	u	\Bbbu	mathematical double-struck small u
u+1D567	∨	\mathbb{V}	V	\mathbb{V}	\mathbb{V}	${f v}$	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	X	\Bbbx	mathematical double-struck small x
u+1D56A	У	y	У	У	У	у	у	\Bbby	mathematical double-struck small y
u+1D56в	Z	Z	Z	Z	Z	Z	Z	\Bbbz	mathematical double-struck small z

15.1.13 Sans serif, Latin, uppercase

USV	M	S	Е	P	D	L	G	Macro	Description
U+1D5A0	A	Α	Α	Α	Α	A	A	\msansA	mathematical sans-serif capital a
U+1D5A1	В	В	В	В	В	В	В	\msansB	mathematical sans-serif capital b
U+1D5A2	С	С	С	С	С	С	С	\msansC	mathematical sans-serif capital c
U+1D5A3	D	D	D	D	D	D	D	\msansD	mathematical sans-serif capital d

USV	M	S	Е	Р	D	L	G	Macro	Description
U+1D5A4	Е	Е	Е	Е	Е	Е	Е	\msansE	mathematical sans-serif capital e
U+1D5A5	F	F	F	F	F	F	F	\msansF	mathematical sans-serif capital f
u+1D5A6	G	G	G	G	G	G	G	\msansG	mathematical sans-serif capital g
u+1D5A7	Н	Н	Н	Н	Н	Н	Н	\msansH	mathematical sans-serif capital h
u+1D5A8	T	1	I	1	1	I	I	\msansI	mathematical sans-serif capital i
U+1D5A9	J	J	J	J	J	J	J	\msansJ	mathematical sans-serif capital j
U+1D5AA	K	K	K	K	K	K	K	\msansK	mathematical sans-serif capital k
U+1D5AB	L	L	L	L	L	L	L	\msansL	mathematical sans-serif capital l
U+1D5AC	M	M	M	M	M	М	M	\msansM	mathematical sans-serif capital m
U+1D5AD	N	N	N	N	N	N	N	\msansN	mathematical sans-serif capital n
u+1D5AE	0	0	0	0	0	O	O	\msans0	mathematical sans-serif capital o
u+1D5AF	Р	Р	Р	Р	Р	P	Р	\msansP	mathematical sans-serif capital p
U+1D5BO	Q	Q	Q	Q	Q	Q	Q	\msansQ	mathematical sans-serif capital q
U+1D5B1	R	R	R	R	R	R	R	\msansR	mathematical sans-serif capital r
U+1D5B2	S	S	S	S	S	S	S	\msansS	mathematical sans-serif capital s
U+1D5B3	Т	Т	Т	Т	Т	Т	Т	\msansT	mathematical sans-serif capital t
u+1D5B4	U	U	U	U	U	U	U	\msansU	mathematical sans-serif capital u
U+1D5B5	V	V	V	٧	V	V	V	\msansV	mathematical sans-serif capital v
U+1D5B6	W	W	W	W	W	W	W	\msansW	mathematical sans-serif capital w

USV	M	S	E	P	D	L	G	Macro	Description
U+1D5B7	X	Χ	Χ	Χ	Χ	X	X	\msansX	mathematical sans-serif capital x
U+1D5B8	Υ	Υ	Υ	Υ	Υ	Y	Y	\msansY	mathematical sans-serif capital y
U+1D5B9	Z	Z	Z	Z	Z	Z	Z	\msansZ	mathematical sans-serif capital z

15.1.14 Sans serif, Latin, lowercase

	N /		17	D		т		M	Description
USV	M	S	Е	Р	D	L	G	Macro	Description
U+1D5BA	а	a	a	a	a	a	a	\msansa	mathematical sans-serif small a
U+1D5BB	b	b	b	b	b	b	b	\msansb	mathematical sans-serif small b
U+1D5BC	С	С	С	С	С	С	С	\msansc	mathematical sans-serif small c
U+1D5BD	d	d	d	d	d	d	d	\msansd	mathematical sans-serif small d
U+1D5BE	е	е	е	е	е	e	e	\msanse	mathematical sans-serif small e
U+1D5BF	f	f	f	f	f	f	f	\msansf	mathematical sans-serif small f
U+1D5C0	g	g	g	g	g	g	g	\msansg	$mathematical \ sans-serif \ small \ g$
U+1D5C1	h	h	h	h	h	h	h	\msansh	mathematical sans-serif small h
U+1D5C2	i	i	i	i	i	i	i	\msansi	mathematical sans-serif small i
U+1D5C3	j	j	j	j	j	j	j	\msansj	mathematical sans-serif small j
U+1D5C4	k	k	k	k	k	k	k	\msansk	mathematical sans-serif small k
U+1D5C5	I	l	I	I	I	1	1	\msansl	mathematical sans-serif small l
U+1D5C6	m	m	m	m	m	m	m	\msansm	mathematical sans-serif small m
U+1D5C7	n	n	n	n	n	n	n	\msansn	mathematical sans-serif small n
U+1D5C8	0	0	0	0	0	0	0	\msanso	mathematical sans-serif small o
U+1D5C9	р	р	р	р	р	р	р	\msansp	mathematical sans-serif small p

USV	M	S	Е	Р	D	L	G	Macro	Description
U+1D5CA	q	q	q	q	q	q	q	\msansq	mathematical sans-serif small q
U+1D5СВ	r	r	r	r	r	r	r	\msansr	mathematical sans-serif small r
U+1D5CC	S	S	S	S	S	S	S	\msanss	mathematical sans-serif small s
U+1D5CD	t	t	t	t	t	t	t	\msanst	mathematical sans-serif small t
U+1D5CE	u	u	u	u	u	u	u	\msansu	mathematical sans-serif small u
U+1D5CF	V	V	V	V	٧	V	V	\msansv	$mathematical \ sans-serif \ small \ v$
U+1D5D0	W	W	W	W	W	w	w	\msansw	mathematical sans-serif small w
U+1D5D1	X	Х	X	X	X	X	X	\msansx	mathematical sans-serif small x
U+1D5D2	у	у	у	У	У	У	у	\msansy	mathematical sans-serif small y
U+1D5D3	Z	Z	Z	Z	Z	Z	Z	\msansz	mathematical sans-serif small z

15.1.15 Italic sans serif, Latin, uppercase

USV	M	S	E	P	D	L	G	Macro	Description
U+1D608	Α	Α	Α	Α	Α	Α	A	\mitsansA	mathematical sans-serif italic capital a
U+1D609	В	В	В	В	В	В	В	\mitsansB	mathematical sans-serif italic capital b
U+1D60A	С	С	С	С	С	С	С	\mitsansC	mathematical sans-serif italic capital c
u+1D60в	D	D	D	D	D	D	D	\mitsansD	mathematical sans-serif italic capital d
U+1D60C	Ε	Ε	Ε	Ε	Ε	Ε	Ε	\mitsansE	mathematical sans-serif italic capital e
U+1D60D	F	F	F	F	F	F	F	\mitsansF	mathematical sans-serif italic capital f
U+1D60E	G	G	G	G	G	G	G	\mitsansG	mathematical sans-serif italic capital g
U+1D60F	Н	Н	Н	Н	Н	Н	Н	\mitsansH	mathematical sans-serif italic capital h

USV	M	S	Е	P	D	L	G	Macro	Description
U+1D610	1	I	1	I	1	I	I	\mitsansI	mathematical sans-serif italic capital i
U+1D611	J	J	J	J	J	J	J	\mitsansJ	mathematical sans-serif italic capital j
U+1D612	K	K	K	K	K	K	K	\mitsansK	mathematical sans-serif italic capital k
U+1D613	L	L	L	L	L	L	L	\mitsansL	mathematical sans-serif italic capital l
U+1D614	М	Μ	Μ	М	М	М	М	\mitsansM	mathematical sans-serif italic capital m
U+1D615	N	Ν	N	N	N	N	N	\mitsansN	mathematical sans-serif italic capital n
U+1D616	0	0	0	0	0	0	0	\mitsans0	mathematical sans-serif italic capital o
U+1D617	P	Р	P	Р	P	P	Р	\mitsansP	mathematical sans-serif italic capital p
U+1D618	Q	Q	Q	Q	Q	Q	Q	\mitsansQ	mathematical sans-serif italic capital q
U+1D619	R	R	R	R	R	R	R	\mitsansR	mathematical sans-serif italic capital r
U+1D61A	S	S	5	S	S	S	S	\mitsansS	mathematical sans-serif italic capital s
U+1D61B	T	Т	Т	Т	Т	Т	Т	\mitsansT	mathematical sans-serif italic capital t
U+1D61C	U	U	U	U	U	U	U	\mitsansU	mathematical sans-serif italic capital u
U+1D61D	V	V	V	V	V	V	V	\mitsansV	mathematical sans-serif italic capital v
U+1D61E	W	W	W	W	W	W	W	\mitsansW	mathematical sans-serif italic capital w
U+1D61F	X	Χ	X	X	X	X	X	\mitsansX	mathematical sans-serif italic capital x
U+1D620	Y	Υ	Y	Υ	Υ	Y	Υ	\mitsansY	mathematical sans-serif italic capital y
U+1D6 2 1	Z	Z	Z	Z	Z	Z	Z	\mitsansZ	mathematical sans-serif italic capital z

15.1.16 Italic sans serif, Latin, lowercase

USV	M	S	Е	Р	D	L	G	Macro	Description
U+1D622	а	а	а	а	a	а	а	\mitsansa	mathematical sans-serif italic small a
U+1D623	Ь	b	b	b	b	b	b	\mitsansb	mathematical sans-serif italic small b
u+1D624	С	С	С	С	С	С	С	\mitsansc	mathematical sans-serif italic small c
u+1D625	d	d	d	d	d	d	d	\mitsansd	mathematical sans-serif italic small d
U+1D626	e	e	e	е	e	e	e	\mitsanse	mathematical sans-serif italic small e
u+1D627	f	f	f	f	f	f	f	\mitsansf	mathematical sans-serif italic small f
U+1D628	g	g	g	g	g	g	g	\mitsansg	mathematical sans-serif italic small g
U+1D629	h	h	h	h	h	h	h	\mitsansh	mathematical sans-serif italic small h
u+1D62A	i	i	i	i	i	i	i	\mitsansi	mathematical sans-serif italic small i
U+1D62B	j	j	j	j	j	j	j	\mitsansj	mathematical sans-serif italic small j
u+1D6 2 C	k	k	k	k	k	k	k	\mitsansk	mathematical sans-serif italic small k
U+1D62D	1	l	I	1	I	l	l	\mitsansl	mathematical sans-serif italic small l
U+1D62E	m	m	m	m	m	m	m	\mitsansm	mathematical sans-serif italic small m
U+1D62F	n	n	n	n	n	n	n	\mitsansn	mathematical sans-serif italic small n
U+1D630	0	0	0	0	0	0	0	\mitsanso	mathematical sans-serif italic small o
u+1D631	p	p	p	р	p	p	p	\mitsansp	mathematical sans-serif italic small p
U+1D632	q	q	q	q	q	q	q	\mitsansq	mathematical sans-serif italic small q

USV	M	S	Е	Р	D	L	G	Macro	Description
u+1D633	r	r	r	r	r	r	r	\mitsansr	mathematical sans-serif italic small r
u+1D634	5	S	S	S	S	S	s	\mitsanss	mathematical sans-serif italic small s
u+1D635	t	t	t	t	t	t	t	\mitsanst	mathematical sans-serif italic small t
U+1D636	и	и	и	и	и	и	и	\mitsansu	mathematical sans-serif italic small u
u+1D637	V	V	V	V	V	V	V	\mitsansv	$\label{eq:mathematical} \begin{tabular}{ll} mathematical sans-serifitalic \\ small \ v \end{tabular}$
u+1D638	W	W	W	W	W	w	w	\mitsansw	mathematical sans-serif italic small w
u+1D639	X	Χ	X	X	X	X	X	\mitsansx	mathematical sans-serif italic small x
u+1D63a	y	у	y	y	У	y	y	\mitsansy	mathematical sans-serif italic small y
U+1D63B	Z	Z	Z	Z	Z	Z	Z	\mitsansz	mathematical sans-serif italic small z

15.1.17 Typewriter, Latin, uppercase

USV	M	S	Е	Р	D	L	G	Macro	Description
u+1D670	A	A	A	A	Α	A	A	\mttA	mathematical monospace capital a
u+1D671	В	В	В	В	В	В	В	\mttB	mathematical monospace capital b
u+1D672	С	С	С	С	С	С	C	\mttC	mathematical monospace capital c
u+1D673	D	D	D	D	D	D	D	\mttD	mathematical monospace capital d
u+1D674	Е	Е	Е	Е	Е	E	Е	\mttE	mathematical monospace capital e
U+1D675	F	F	F	F	F	F	F	\mttF	mathematical monospace capital f

USV	M	S	Е	Р	D	L	G	Macro	Description
U+1D676	G	G	G	G	G	G	G	\mttG	mathematical monospace capital g
U+1D677	Н	Н	Н	Н	Н	Н	Н	\mttH	mathematical monospace capital h
U+1D678	I	Ι	I	Ι	Ι	I	I	\mttI	mathematical monospace capital i
U+1D679	J	J	J	J	J	J	J	\mttJ	mathematical monospace capital j
u+1d67a	K	K	K	K	K	K	K	\mttK	mathematical monospace capital k
u+1D67в	L	L	L	L	L	L	L	\mttL	mathematical monospace capital I
u+1D67C	М	М	M	M	М	M	M	\mttM	mathematical monospace capital m
u+1D67D	N	N	N	N	N	N	N	\mttN	mathematical monospace capital n
U+1D67E	0	0	0	0	0	0	0	\mtt0	mathematical monospace capital o
U+1D67F	P	Р	P	P	Р	P	P	\mttP	mathematical monospace capital p
U+1D680	Q	Q	Q	Q	Q	Q	Q	\mttQ	$\label{eq:mathematical} \mbox{mathematical monospace capital } q$
U+1D681	R	R	R	R	R	R	R	\mttR	mathematical monospace capital r
U+1D682	S	S	S	S	S	S	S	\mttS	mathematical monospace capital s
U+1D683	T	Т	Т	Т	Т	Т	Т	\mttT	mathematical monospace capital t
u+1D684	U	U	U	U	U	U	U	\mttU	mathematical monospace capital u
U+1D685	V	V	٧	V	V	V	V	\mttV	$\label{eq:mathematical} \begin{tabular}{ll} mathematical monospace capital v \\ \end{tabular}$
U+1D686	W	W	W	W	W	W	W	\mttW	mathematical monospace capital w

USV	M	S	Е	Р	D	L	G	Macro	Description
u+1D687	X	X	X	X	X	X	Х	\mttX	mathematical monospace capital x
U+1D688	Y	Y	Y	Y	Υ	Y	Y	\mttY	mathematical monospace capital y
U+1D689	Z	Z	Z	Z	Z	Z	Z	\mttZ	mathematical monospace capital z

15.1.18 Typewriter, Latin, lowercase

USV	M	S	Е	P	D	L	G	Macro	Description
U+1D68A	a	а	a	a	a	a	a	\mtta	mathematical monospace small a
u+1D68в	b	b	b	b	b	b	b	\mttb	mathematical monospace small b
U+1D68C	С	С	С	С	С	С	С	\mttc	mathematical monospace small c
U+1D68D	d	d	d	d	d	d	d	\mttd	mathematical monospace small d
u+1D68e	е	е	е	е	е	е	е	\mtte	mathematical monospace small e
U+1D68F	f	f	f	f	f	f	f	\mttf	mathematical monospace small f
u+1D690	g	g	g	g	g	g	g	\mttg	mathematical monospace small g
u+1D691	h	h	h	h	h	h	h	\mtth	mathematical monospace small h
U+1D692	i	i	i	i	i	i	i	\mtti	mathematical monospace small i
U+1D693	j	j	j	j	j	j	j	\mttj	mathematical monospace small j
u+1D694	k	k	k	k	k	k	k	\mttk	mathematical monospace small k
U+1D695	1	1	1	1	ι	1	1	\mttl	mathematical monospace small l

USV	M	S	Е	Р	D	L	G	Macro	Description
u+1D696	m	m	m	m	m	m	m	\mttm	mathematical monospace small m
u+1D697	n	n	n	n	n	n	n	\mttn	mathematical monospace small n
u+1D698	0	0	0	0	0	0	0	\mtto	mathematical monospace small o
u+1D699	p	p	p	p	p	р	p	\mttp	mathematical monospace small p
u+1D69A	q	q	q	q	q	q	q	\mttq	mathematical monospace small q
и+1D69в	r	r	r	r	r	r	r	\mttr	mathematical monospace small r
u+1D69C	S	s	S	S	S	s	s	\mtts	mathematical monospace small s
u+1D69D	t	t	t	t	t	t	t	\mttt	mathematical monospace small t
u+1D69E	u	u	u	u	u	u	u	\mttu	mathematical monospace small u
u+1D69F	v	v	v	V	٧	v	v	\mttv	mathematical monospace small v
u+1d6ao	W	W	W	W	W	W	W	\mttw	mathematical monospace small w
u+1D6A1	x	X	x	X	X	x	x	\mttx	mathematical monospace small x
U+1D6A2	у	у	У	у	У	У	У	\mtty	mathematical monospace small y
U+1D6A3	z	Z	Z	Z	Z	Z	Z	\mttz	mathematical monospace small z

15.2 Bold15.2.1 Bold, Latin, uppercase

USV	M	S	Е	Р	D	L	G	Macro	Description
U+1D400	A	A	A	A	A	A	A	\mbfA	mathematical bold capital a
U+1D401	В	В	В	В	В	В	В	\mbfB	mathematical bold capital b

USV	M	S	Е	P	D	L	G	Macro	Description
U+1D402	C	C	C	С	C	С	С	\mbfC	mathematical bold capital c
U+1D403	D	D	D	D	D	D	D	\mbfD	mathematical bold capital d
U+1D404	\mathbf{E}	E	E	E	E	E	E	\mbfE	mathematical bold capital e
U+1D405	\mathbf{F}	F	F	F	F	F	F	\mbfF	mathematical bold capital f
U+1D406	\mathbf{G}	G	G	G	G	G	G	\mbfG	mathematical bold capital g
U+1D407	н	Н	Н	Н	н	Н	Н	\mbfH	mathematical bold capital h
U+1D408	Ι	Ι	I	Ι	Ι	Ι	I	\mbfI	mathematical bold capital i
U+1D409	J	J	J	J	J	J	J	\mbfJ	mathematical bold capital j
U+1D40A	K	K	K	K	K	K	K	\mbfK	mathematical bold capital k
U+1D40B	${f L}$	L	L	L	L	L	L	\mbfL	mathematical bold capital l
U+1D40C	\mathbf{M}	M	M	M	M	M	M	\mbfM	mathematical bold capital m
U+1D40D	N	N	N	N	N	N	N	\mbfN	mathematical bold capital n
U+1D40E	O	0	0	O	0	O	o	\mbf0	mathematical bold capital o
U+1D40F	P	P	P	P	P	P	P	\mbfP	mathematical bold capital p
U+1D410	\mathbf{Q}	Q	Q	Q	Q	Q	Q	\mbfQ	mathematical bold capital q
U+1D411	\mathbf{R}	R	R	R	R	R	R	\mbfR	mathematical bold capital r
U+1D412	\mathbf{S}	S	S	S	S	S	S	\mbfS	mathematical bold capital s
U+1D413	${f T}$	T	T	T	T	T	T	\mbfT	mathematical bold capital t
U+1D414	\mathbf{U}	U	U	U	U	U	U	\mbfU	mathematical bold capital u
U+1D415	\mathbf{V}	v	V	V	V	V	V	\mbfV	mathematical bold capital v
U+1D416	\mathbf{W}	w	W	W	W	W	W	\mbfW	mathematical bold capital w
U+1D417	X	X	X	X	X	X	X	\mbfX	mathematical bold capital x

USV	M	S	Е	P	D	L	G	Macro	Description
U+1D418	Y	Y	Y	Y	Y	Y	Y	\mbfY	mathematical bold capital y
U+1D419	\mathbf{Z}	Z	Z	Z	Z	Z	Z	\mbfZ	mathematical bold capital z

15.2.2 Bold, Latin, lowercase

USV	M	S	E	P	D	L	G	Macro	Description
U+1D41A	a	a	a	a	a	a	a	\mbfa	mathematical bold small a
U+1D41B	b	b	b	b	b	b	b	\mbfb	mathematical bold small b
U+1D41C	\mathbf{c}	c	c	c	C	c	c	\mbfc	mathematical bold small c
U+1D41D	d	d	d	d	d	d	d	\mbfd	mathematical bold small d
U+1D41E	\mathbf{e}	e	e	e	e	e	e	\mbfe	mathematical bold small e
U+1D41F	\mathbf{f}	f	f	f	f	f	f	\mbff	mathematical bold small f
U+1D 42 0	g	g	g	g	g	g	g	\mbfg	mathematical bold small g
U+1D 42 1	h	h	h	h	h	h	h	\mbfh	mathematical bold small h
U+1D 422	i	i	i	i	i	i	i	\mbfi	mathematical bold small i
u+1D 42 3	j	j	j	j	j	j	j	\mbfj	mathematical bold small j
U+1D4 2 4	k	k	k	k	k	k	k	\mbfk	mathematical bold small k
U+1D 42 5	1	1	1	1	1	1	1	\mbfl	mathematical bold small l
u+1d426	m	m	m	m	m	m	m	\mbfm	mathematical bold small m
u+1D4 2 7	n	n	n	n	n	n	n	\mbfn	mathematical bold small n
u+1d428	0	0	0	0	0	0	0	\mbfo	mathematical bold small o
u+1D 42 9	p	p	p	p	p	p	p	\mbfp	mathematical bold small p
u+1D42A	\mathbf{q}	q	q	q	q	q	q	\mbfq	mathematical bold small q

USV	M	S	Е	Р	D	L	G	Macro	Description
U+1D42B	r	r	r	r	r	r	r	\mbfr	mathematical bold small r
U+1D 42 C	S	S	S	S	S	S	S	\mbfs	mathematical bold small s
U+1D4 2 D	\mathbf{t}	t	t	t	t	t	t	\mbft	mathematical bold small t
U+1D4 2 E	u	u	u	u	u	u	u	\mbfu	mathematical bold small u
U+1D4 2 F	\mathbf{v}	v	v	v	v	v	v	\mbfv	mathematical bold small v
U+1D430	\mathbf{w}	w	w	w	w	w	w	\mbfw	mathematical bold small w
U+1D431	x	X	X	x	X	X	X	\mbfx	mathematical bold small x
U+1D432	\mathbf{y}	y	y	y	y	y	y	\mbfy	mathematical bold small y
U+1D433	\mathbf{z}	Z	Z	Z	Z	Z	z	\mbfz	mathematical bold small z

15.2.3 Bold Greek, uppercase

USV	M	S	Е	P	D	L	G	Macro	Description	
U+1D6A8	A	A	A	A	A	A	A	\mbfAlpha	mathematical bold capital alpha	
u+1D6A9	В	В	В	В	В	В	В	\mbfBeta	mathematical bold capital beta	
u+1d6aa	Γ	Γ	Γ	Γ	Γ	Γ	Γ	\mbfGamma	mathematical bold capital gamma	
U+1D6AB	Δ	Δ	Δ	Δ	Δ	Δ	Δ	\mbfDelta	mathematical bold capital delta	
u+1D6AC	\mathbf{E}	E	E	E	E	E	E	\mbfEpsilon	mathematical bold capital epsilon	
u+1d6ad	\mathbf{Z}	Z	Z	Z	Z	Z	Z	\mbfZeta	mathematical bold capital zeta	
u+1d6ae	н	Н	Н	Н	н	Н	Н	\mbfEta	mathematical bold capital eta	
u+1d6af	Θ	Θ	Θ	Θ	H	Θ	Θ	\mbfTheta	mathematical bold capital theta	
u+1D6во	Ι	I	I	Ι	Ι	Ι	I	\mbfIota	mathematical bold capital iota	
U+1D6B1	K	K	K	K	K	K	K	\mbfKappa	mathematical bold capital kappa	

USV	M	S	E	P	D	L	G	Macro	Description
U+1D6B2	Λ	Λ	Λ	Λ	Λ	Λ	Λ	\mbfLambda	mathematical bold capital lambda
и+1D6в3	\mathbf{M}	M	M	M	M	M	M	\mbfMu	mathematical bold capital mu
u+1D6B4	N	N	N	N	N	N	N	\mbfNu	mathematical bold capital nu
U+1D6B5	Ξ	Ξ	Ξ	Ξ	Ξ	Ξ	Ξ	\mbfXi	mathematical bold capital xi
U+1D6в6	O	0	0	О	0	O	0	\mbf0micron	mathematical bold capital omicron
u+1D6B7	П	П	П	П	п	П	П	\mbfPi	mathematical bold capital pi
u+1D6в8	P	P	P	P	P	P	P	\mbfRho	mathematical bold capital rho
U+1D6B9	Θ	θ	θ	Θ	θ	θ	θ	\mbfvarTheta	mathematical bold capital theta symbol
U+1D6BA	Σ	Σ	Σ	Σ	Σ	Σ	Σ	\mbfSigma	mathematical bold capital sigma
u+1D6вв	${f T}$	T	T	T	T	T	T	\mbfTau	mathematical bold capital tau
U+1D6BC	Υ	Y	Υ	Y	Υ	Y	Υ	\mbfUpsilon	mathematical bold capital upsilon
U+1D6BD	Φ	Φ	Φ	Φ	Φ	Φ	Φ	\mbfPhi	mathematical bold capital phi
u+1D6ве	X	X	X	X	X	X	X	\mbfChi	mathematical bold capital chi
u+1D6вғ	Ψ	Ψ	Ψ	Ψ	Ψ	Ψ	Ψ	\mbfPsi	mathematical bold capital psi
U+1D6C0	Ω	Ω	Ω	Ω	Ω	Ω	Ω	\mbf0mega	mathematical bold capital omega

15.2.4 Bold Greek, lowercase

USV	M	S	Е	P	D	L	G	Macro	Description
U+1D6C2	α	α	α	α	α	α	α	\mbfalpha	mathematical bold small alpha
U+1D6C3	β	β	β	β	β	β	β	\mbfbeta	mathematical bold small beta
U+1D6C4	γ	γ	Υ	γ	γ	γ	γ	\mbfgamma	mathematical bold small gamma

USV	M	S	Е	Р	D	L	G	Macro	Description
U+1D6C5	δ	δ	δ	δ	δ	δ	8	\mbfdelta	mathematical bold small delta
U+1D6C6	ε	ε	ε	3	3	3	8	\mbfvarepsilon	mathematical bold small varepsilon
u+1D6c7	ζ	ζ	ζ	ζ	ζ	ζ	ζ	\mbfzeta	mathematical bold small zeta
U+1D6C8	η	η	η	η	η	η	η	\mbfeta	mathematical bold small eta
U+1D6C9	θ	Θ	θ	θ	θ	θ	θ	\mbftheta	mathematical bold small theta
U+1D6CA	ι	ι	ι	ι	ι	ι	ι	\mbfiota	mathematical bold small iota
u+1D6св	κ	κ	K	к	K	κ	κ	\mbfkappa	mathematical bold small kappa
U+1D6CC	λ	λ	λ	λ	λ	λ	λ	\mbflambda	mathematical bold small lambda
U+1D6CD	μ	μ	μ	μ	μ	μ	μ	\mbfmu	mathematical bold small mu
U+1D6CE	ν	ν	ν	ν	υ	ν	ν	\mbfnu	mathematical bold small nu
U+1D6CF	ξ	ξ	ξ	ξ	ξ	ξ	ξ	\mbfxi	mathematical bold small xi
U+1D6D0	0	0	0	0	0	0	0	\mbfomicron	mathematical bold small omicron
U+1D6D1	π	π	π	π	п	π	π	\mbfpi	mathematical bold small pi
U+1D6D2	ρ	ρ	ρ	ρ	ρ	ρ	ρ	\mbfrho	mathematical bold small rho
U+1D6D3	ς	ς	ς	ς	ς	ς	ς	\mbfvarsigma	mathematical bold small final sigma
u+1D6D4	σ	ь	σ	σ	σ	σ	σ	\mbfsigma	mathematical bold small sigma
U+1D6D5	τ	τ	τ	τ	τ	τ	τ	\mbftau	mathematical bold small tau
U+1D6D6	υ	υ	υ	υ	υ	υ	υ	\mbfupsilon	mathematical bold small upsilon
U+1D6D7	φ	φ	φ	φ	φ	φ	φ	\mbfvarphi	mathematical bold small phi
U+1D6D8	χ	χ	χ	χ	χ	χ	χ	\mbfchi	mathematical bold small chi
U+1D6D9	ψ	ψ	ψ	ψ	Ψ	ψ	ψ	\mbfpsi	mathematical bold small psi

USV	M	S	Е	Р	D	L	G	Macro	Description
U+1D6DA	ω	ω	ω	ω	ω	ω	ω	\mbfomega	mathematical bold small omega
U+1D6DB	6	9	9	9	9	9	9	\mbfpartial	mathematical bold partial dif- ferential
U+1D6DC	ε	€	E	ϵ	E	€	€	\mbfepsilon	mathematical bold varepsilon symbol
U+1D6DD	ϑ	Э	θ	θ	Ð	Э	Э	\mbfvartheta	mathematical bold theta symbol
U+1D6DE	и	ĸ	ĸ	и	×	ĸ	ж	\mbfvarkappa	mathematical bold kappa symbol
U+1D6DF	ф	ф	ф	ф	ф	ф	ф	\mbfphi	mathematical bold phi symbol
U+1D6E0	Q	ę	6	Q	Q	9	6	\mbfvarrho	mathematical bold rho symbol
U+1D6E1	Β	σ	۵	Ø	យ	$\boldsymbol{\varpi}$	Ø	\mbfvarpi	mathematical bold pi symbol

15.2.5 Bold italic, Latin, uppercase

USV	M	S	Е	Р	D	L	G	Macro	Description
u+1D468	A	A	A	A	A	A	A	\mbfitA	mathematical bold italic capital a
u+1D469	\boldsymbol{B}	В	В	В	В	В	В	\mbfitB	mathematical bold italic capital b
u+1d46a	\boldsymbol{C}	C	C	С	C	C	C	\mbfitC	mathematical bold italic capital c
и+1D46в	D	D	D	D	D	D	D	\mbfitD	mathematical bold italic capital d
u+1D46c	$oldsymbol{E}$	E	E	E	E	E	E	\mbfitE	mathematical bold italic capital e
u+1D46D	$oldsymbol{F}$	F	F	F	F	F	F	\mbfitF	mathematical bold italic capital f
u+1D46e	G	\boldsymbol{G}	G	G	G	G	\boldsymbol{G}	\mbfitG	mathematical bold italic capital
u+1D46f	H	H	H	Н	H	Н	H	\mbfitH	mathematical bold italic capital h

USV	M	S	Е	Р	D	L	G	Macro	Description
U+1D470	I	I	I	I	I	I	I	\mbfitI	mathematical bold italic capital i
U+1D471	J	\boldsymbol{J}	J	J	J	J	J	\mbfitJ	mathematical bold italic capital j
U+1D472	K	K	K	K	K	K	K	\mbfitK	mathematical bold italic capital k
U+1D473	$oldsymbol{L}$	L	L	L	L	L	L	\mbfitL	mathematical bold italic capital l
U+1D474	M	M	M	M	M	M	M	\mbfitM	mathematical bold italic capital m
U+1D475	N	N	N	N	N	N	N	\mbfitN	mathematical bold italic capital n
u+1D476	0	0	0	0	0	0	0	\mbfit0	mathematical bold italic capital o
U+1D477	P	P	P	P	P	P	P	\mbfitP	mathematical bold italic capital p
U+1D478	Q	Q	Q	Q	Q	Q	Q	\mbfitQ	mathematical bold italic capital q
U+1D479	R	R	R	R	R	R	R	\mbfitR	mathematical bold italic capital r
U+1D47A	$oldsymbol{S}$	S	S	S	S	S	S	\mbfitS	mathematical bold italic capital s
U+1D47B	T	T	T	T	T	T	T	\mbfitT	mathematical bold italic capital t
U+1D47C	$oldsymbol{U}$	U	U	U	U	U	U	\mbfitU	mathematical bold italic capital u
U+1D47D	V	$oldsymbol{V}$	V	V	$oldsymbol{V}$	V	V	\mbfitV	mathematical bold italic capital v
U+1D47E	W	W	W	W	W	W	W	\mbfitW	mathematical bold italic capital w
U+1D47F	X	X	X	X	X	X	X	\mbfitX	mathematical bold italic capital x
u+1D480	Y	Y	Y	Y	Y	Y	Y	\mbfitY	mathematical bold italic capital y
U+1D481	\boldsymbol{Z}	Z	Z	Z	Z	Z	Z	\mbfitZ	mathematical bold italic capital z

15.2.6 Bold italic, Latin, lowercase

USV	M	S	Е	P	D	L	G	Macro	Description
U+1D482	\boldsymbol{a}	а	a	а	а	a	a	\mbfita	mathematical bold italic small a
U+1D483	b	b	b	b	b	b	b	\mbfitb	mathematical bold italic small b
U+1D484	\boldsymbol{c}	c	c	c	C	c	c	\mbfitc	mathematical bold italic small c
u+1D485	d	d	d	d	d	d	d	\mbfitd	mathematical bold italic small d
U+1D486	e	e	e	e	e	e	e	\mbfite	mathematical bold italic small e
u+1D487	f	f	f	f	f	f	f	\mbfitf	mathematical bold italic small f
u+1D488	$oldsymbol{g}$	g	g	g	g	g	g	\mbfitg	mathematical bold italic small g
u+1D489	h	h	h	h	h	h	b	\mbfith	mathematical bold italic small h
u+1d48a	$oldsymbol{i}$	i	i	i	i	i	i	\mbfiti	mathematical bold italic small i
U+1D48B	$oldsymbol{j}$	j	j	j	j	j	j	\mbfitj	mathematical bold italic small j
U+1D48C	\boldsymbol{k}	k	k	k	k	k	k	\mbfitk	mathematical bold italic small k
U+1D48D	l	l	l	1	1	l	l	\mbfitl	mathematical bold italic small l
U+1D48E	m	m	m	m	m	m	m	\mbfitm	mathematical bold italic small
U+1D48F	\boldsymbol{n}	n	n	n	n	n	n	\mbfitn	mathematical bold italic small n
U+1D490	0	0	0	0	0	0	0	\mbfito	mathematical bold italic small o
U+1D491	$oldsymbol{p}$	p	p	p	p	p	p	\mbfitp	mathematical bold italic small p
U+1D492	$oldsymbol{q}$	q	q	q	q	\boldsymbol{q}	q	\mbfitq	mathematical bold italic small q
U+1D493	$oldsymbol{r}$	r	r	r	r	r	r	\mbfitr	mathematical bold italic small r
U+1D494	s	S	s	s	S	s	5	\mbfits	mathematical bold italic small s

USV	M	S	Е	P	D	L	G	Macro	Description
U+1D495	t	t	t	t	t	t	t	\mbfitt	mathematical bold italic small t
u+1D496	\boldsymbol{u}	u	u	и	u	u	u	\mbfitu	mathematical bold italic small u
U+1D497	$oldsymbol{v}$	v	v	v	υ	v	v	\mbfitv	mathematical bold italic small v
u+1D498	$oldsymbol{w}$	w	w	w	w	w	w	\mbfitw	mathematical bold italic small
U+1D499	$oldsymbol{x}$	x	x	x	x	x	x	\mbfitx	mathematical bold italic small x
u+1D49A	$oldsymbol{y}$	y	y	y	y	y	y	\mbfity	mathematical bold italic small y
U+1D49B	\boldsymbol{z}	z	z	z	z	z	z	\mbfitz	mathematical bold italic small z

15.2.7 Bold italic Greek, uppercase

USV	M	S	Е	Р	D	L	G	Macro	Description
U+1D71C	A	A	A	A	A	A	A	\mbfitAlpha	mathematical bold italic capital alpha
U+1D71D	\boldsymbol{B}	В	В	В	В	В	В	\mbfitBeta	mathematical bold italic capital beta
U+1D71E	$oldsymbol{\Gamma}$	Γ	Γ	Γ	Γ	Γ	Γ	\mbfitGamma	mathematical bold italic capital gamma
U+1D71F	Δ	Δ	Δ	Δ	Δ	Δ	Δ	\mbfitDelta	mathematical bold italic capital delta
U+1D 72 0	$oldsymbol{E}$	E	E	E	E	E	E	\mbfitEpsilon	mathematical bold italic capital epsilon
U+1D 72 1	\boldsymbol{Z}	Z	Z	Z	Z	Z	Z	\mbfitZeta	mathematical bold italic capital zeta
U+1D 722	H	H	H	Н	H	Н	H	\mbfitEta	mathematical bold italic capital eta
U+1D723	Θ	Θ	0	Θ	(9)	Θ	Θ	\mbfitTheta	mathematical bold italic capital theta
U+1D724	I	I	I	I	I	I	I	\mbfitIota	mathematical bold italic capital iota
U+1D725	K	K	K	K	K	K	K	\mbfitKappa	mathematical bold italic capital kappa

USV	M	S	E	Р	D	L	G	Macro	Description
U+1D 72 6	Λ	Λ	Λ	Λ	Λ	Λ	Λ	\mbfitLambda	mathematical bold italic capital lambda
U+1D 72 7	M	M	M	M	M	M	M	\mbfitMu	mathematical bold italic capital mu
u+1D728	N	N	N	N	N	N	N	\mbfitNu	mathematical bold italic capital nu
U+1D729	Ξ	Ξ	Ξ	Ξ	Ξ	Ξ	Z	\mbfitXi	mathematical bold italic capital xi
U+1D 72 A	0	0	0	0	0	0	0	\mbfit0micron	mathematical bold italic capital omicron
U+1D 72 B	П	П	П	П	П	П	П	\mbfitPi	mathematical bold italic capital pi
u+1D 72 C	P	P	P	P	P	P	P	\mbfitRho	mathematical bold italic capital rho
U+1D 72 D	θ	θ	θ	θ	θ	θ	θ	\mbfitvarTheta	mathematical bold italic capital theta symbol
U+1D 72 E	$oldsymbol{arSigma}$	Σ	Σ	Σ	Σ	Σ	Σ	\mbfitSigma	mathematical bold italic capital sigma
U+1D 72 F	T	T	T	T	T	T	T	\mbfitTau	mathematical bold italic capital tau
U+1D730	Υ	Y	Υ	Y	Y	Y	Υ	\mbfitUpsilon	mathematical bold italic capital upsilon
U+1D731	Φ	Φ	Φ	Φ	Φ	Φ	Φ	\mbfitPhi	mathematical bold italic capital phi
U+1D732	X	X	X	X	X	X	X	\mbfitChi	mathematical bold italic capital
U+1D733	Ψ	Ψ	Ψ	Ψ	Ψ	Ψ	Ψ	\mbfitPsi	mathematical bold italic capital psi
U+1D734	Ω	Ω	Ω	Ω	Ω	Ω	Ω	\mbfit0mega	mathematical bold italic capital omega

15.2.8 Bold italic Greek, lowercase

USV	M	S	Е	Р	D	L	G	Macro	Description
u+1D736	α	α	α	α	α	α	α	\mbfitalpha	mathematical bold italic small alpha
U+1D737	$\boldsymbol{\beta}$	β	β	β	β	β	β	\mbfitbeta	mathematical bold italic small beta
U+1D738	γ	γ	γ	γ	γ	γ	γ	\mbfitgamma	mathematical bold italic small gamma
U+1D739	δ	δ	δ	δ	δ	δ	8	\mbfitdelta	mathematical bold italic small delta
U+1D73A	ε	ε	ε	ε	ε	ε	ε	\mbfitvarepsilon	mathematical bold italic small varepsilon
U+1D73B	ζ	ζ	ζ	ζ	ζ	ζ	ζ	\mbfitzeta	mathematical bold italic small zeta
U+1D73C	η	η	η	η	η	η	η	\mbfiteta	mathematical bold italic small eta
U+1D73D	$\boldsymbol{\theta}$	θ	$\boldsymbol{\theta}$	θ	θ	$\boldsymbol{\theta}$	θ	\mbfittheta	mathematical bold italic small theta
U+1D73E	ι	ι	ι	ι	ι	ı	ι	\mbfitiota	mathematical bold italic small iota
U+1D73F	κ	κ	κ	κ	K	κ	κ	\mbfitkappa	mathematical bold italic small kappa
U+1D740	λ	λ	λ	λ	λ	λ	λ	\mbfitlambda	mathematical bold italic small lambda
U+1D741	μ	μ	μ	μ	μ	μ	μ	\mbfitmu	mathematical bold italic small
U+1D742	ν	ν	v	ν	ν	ν	ν	\mbfitnu	mathematical bold italic small nu
U+1D743	ξ	ξ	ξ	ξ	ξ	ξ	Ĕ	\mbfitxi	mathematical bold italic small xi
u+1D744	0	0	0	0	0	0	0	\mbfitomicron	mathematical bold italic small omicron
U+1D745	π	π	π	π	П	π	π	\mbfitpi	mathematical bold italic small pi
u+1D746	ρ	ρ	ρ	ρ	ρ	ρ	P	\mbfitrho	mathematical bold italic small rho
U+1D747	ς	5	ς	ς	ς	S	ς	\mbfitvarsigma	mathematical bold italic small final sigma
U+1D748	σ	σ	σ	σ	σ	σ	σ	\mbfitsigma	mathematical bold italic small sigma

USV	M	S	Е	Р	D	L	G	Macro	Description
u+1D749	τ	τ	τ	τ	τ	τ	τ	\mbfittau	mathematical bold italic small tau
U+1D74A	$oldsymbol{v}$	υ	\boldsymbol{v}	v	υ	v	υ	\mbfitupsilon	mathematical bold italic small upsilon
U+1D74B	arphi	φ	φ	φ	φ	φ	q	\mbfitvarphi	mathematical bold italic small phi
U+1D74C	χ	χ	χ	χ	X	χ	χ	\mbfitchi	mathematical bold italic small chi
U+1D74D	$oldsymbol{\psi}$	ψ	ψ	ψ	Ψ	ψ	*	\mbfitpsi	mathematical bold italic small psi
u+1D74E	ω	ω	ω	ω	ω	ω	ω	\mbfitomega	mathematical bold italic small omega
u+1D74F	∂	д	∂	д	∂	д	д	\mbfitpartial	mathematical bold italic partial differential
u+1D750	ϵ	ϵ	ϵ	ϵ	ϵ	ϵ	€	\mbfitepsilon	mathematical bold italic varepsilon symbol
U+1D751	θ	ð	ð	v	v	Э	ð	\mbfitvartheta	mathematical bold italic theta symbol
U+1D752	и	x	κ	и	×	ĸ	x	\mbfitvarkappa	mathematical bold italic kappa symbol
U+1D753	ϕ	φ	φ	φ	ф	φ	φ	\mbfitphi	mathematical bold italic phi symbol
u+1D754	Q	9	Q	Q	Q	Q	e	\mbfitvarrho	mathematical bold italic rho symbol
U+1D755	$\overline{\omega}$	$\boldsymbol{\varpi}$	_@	_@	$\boldsymbol{\varpi}$	$\boldsymbol{\varpi}$	Ø	\mbfitvarpi	mathematical bold italic pi symbol

15.2.9 Bold script, Latin, uppercase

	1.1		Е	n	D	т		14	Description
USV	IVI	S	E	P	D	L	G	Macro	Description
U+1D4D0	\mathcal{A}	\mathcal{A}	A	\mathcal{A}	A	A	A	\mbfscrA	mathematical bold script capital a
u+1D4D1	\mathcal{B}	\mathcal{B}	B	\mathcal{B}	В	B	B	\mbfscrB	mathematical bold script capital b
U+1D4D2	\mathcal{C}	e	E	C	C	\mathscr{C}	C	\mbfscrC	mathematical bold script capital

USV	M	S	Е	Р	D	L	G	Macro	Description
U+1D4D3	\mathcal{D}	D	2	D	D	Ø	Ø	\mbfscrD	mathematical bold script capital d
U+1D4D4	Е	8	€	\mathcal{E}	E	8	8	\mbfscrE	mathematical bold script capital e
U+1D4D5	\mathcal{F}	F	Ţ	\mathcal{F}	F	F	${\mathcal F}$	\mbfscrF	mathematical bold script capital f
U+1D4D6	\mathcal{G}	g	G	\mathcal{G}	\mathcal{G}	\mathcal{G}	\mathcal{G}	\mbfscrG	mathematical bold script capital g
U+1D4D7	\mathcal{H}	\mathcal{H}	\mathcal{H}	\mathcal{H}	H	\mathcal{H}	H	\mbfscrH	mathematical bold script capital h
U+1D4D8	$\mathcal J$	\mathcal{J}	I	\mathcal{I}	J	Ŧ	J	\mbfscrI	mathematical bold script capital i
U+1D4D9	\mathcal{J}	J	J	J	J	J	J	\mbfscrJ	mathematical bold script capital j
U+1D4DA	\mathcal{K}	\mathcal{K}	${\mathcal K}$	Ж	К	Ж	Ж	\mbfscrK	mathematical bold script capital k
U+1D4DB	\mathcal{L}	£	\mathscr{L}	£	C	\mathscr{L}	${\mathscr L}$	\mbfscrL	mathematical bold script capital l
U+1D4DC	\mathcal{M}	\mathcal{M}	M	\mathcal{M}	М	M	M	\mbfscrM	mathematical bold script capital m
U+1D4DD	\mathcal{N}	\mathcal{N}	N	\mathcal{N}	N	N	N	\mbfscrN	mathematical bold script capital n
U+1D4DE	0	O	0	0	O	6	0	\mbfscr0	mathematical bold script capital o
U+1D4DF	\mathcal{P}	₽	<i>9</i>	₽	P	Þ	<i>9</i> °	\mbfscrP	mathematical bold script capital p
U+1D4E0	Q	Q	2	Q	Q	Q	Q	\mbfscrQ	mathematical bold script capital q
U+1D4E1	\mathcal{R}	\mathcal{R}	R	\mathcal{R}	R	R	R	\mbfscrR	mathematical bold script capital r
U+1D4E2	S	S	9	5	S	S	8	\mbfscrS	mathematical bold script capital s
U+1D4E3	\mathcal{T}	\mathcal{F}	${\mathscr T}$	T	Т	${\mathscr T}$	${\mathcal T}$	\mbfscrT	mathematical bold script capital t
U+1D4E4	u	и	\mathscr{U}	u	u	u	u	\mbfscrU	mathematical bold script capital u

USV	M	S	Е	P	D	L	G	Macro	Description
U+1D4E5	ν	ν	7/	U	ν	V	V	\mbfscrV	mathematical bold script capital v
u+1D4E6	w	w	W	W	w	W	W	\mbfscrW	mathematical bold script capital w
U+1D4E7	\boldsymbol{x}	x	X	$\boldsymbol{\chi}$	x	\boldsymbol{x}	\boldsymbol{x}	\mbfscrX	mathematical bold script capital x
U+1D4E8	y	y	Ŋ	y	y	¥	y	\mbfscrY	mathematical bold script capital y
U+1D4E9	z	z	\mathcal{Z}	\mathcal{Z}	Z	${oldsymbol{\mathcal{Z}}}$	$\boldsymbol{\mathscr{Z}}$	\mbfscrZ	mathematical bold script capital z

15.2.10 Bold script, Latin, lowercase

USV	M	S	Е	Р	D	L	G	Macro	Description
U+1D4EA		а		a	a	a	a	\mbfscra	mathematical bold script small a
U+1D4EB		b		Ь	b	С	в	\mbfscrb	mathematical bold script small b
u+1D4EC		c		c	c	·c	\boldsymbol{c}	\mbfscrc	mathematical bold script small c
u+1D4ED		d		d	d	d	ď	\mbfscrd	mathematical bold script small d
U+1D4EE		e		$oldsymbol{e}$	e	e	e	\mbfscre	mathematical bold script small e
u+1D4ef		f		f	f	f	f	\mbfscrf	mathematical bold script small f
U+1D4FO		д		g	g	\mathcal{Q}	g	\mbfscrg	mathematical bold script small g
U+1D4F1		ĥ		h	h	ħ	ħ	\mbfscrh	mathematical bold script small h
U+1D4F2		i		i	i	i	i	\mbfscri	mathematical bold script small i
u+1D4F3		j		j	j	j	j	\mbfscrj	mathematical bold script small j
U+1D4F4		k		k	K	Ŕ	k	\mbfscrk	mathematical bold script small

USV	M	S	Е	Р	D	L	G	Macro	Description
u+1D4F5		l		l	l	C	ℓ	\mbfscrl	mathematical bold script small l
u+1D4F6		m		m	m	m	m	\mbfscrm	mathematical bold script small m
u+1D4F7		n		\boldsymbol{n}	n	n	n	\mbfscrn	mathematical bold script small n
U+1D4F8		ø		o	O	0	•	\mbfscro	mathematical bold script small o
u+1D4F9		p		P	p	p	p	\mbfscrp	mathematical bold script small p
U+1D4FA		q		q	q	q	q	\mbfscrq	mathematical bold script small q
U+1D4FB		r		r	r	r	r	\mbfscrr	mathematical bold script small r
u+1D4FC		s		\$	J	3	ð	\mbfscrs	mathematical bold script small s
U+1D4FD		t		t	t	ŧ	ŧ	\mbfscrt	mathematical bold script small t
u+1d4fe		и		и	u	u	u	\mbfscru	mathematical bold script small u
u+1d4ff		v		v	v	v	v	\mbfscrv	mathematical bold script small v
U+1D500		w		w	w	w	w	\mbfscrw	mathematical bold script small w
U+1D501		x		x	æ	\boldsymbol{x}	\boldsymbol{x}	\mbfscrx	mathematical bold script small x
U+1D502		y		y	y	¥	y	\mbfscry	mathematical bold script small y
U+1D503		\boldsymbol{z}		z	Z	z	z	\mbfscrz	mathematical bold script small z

15.2.11 Bold fraktur, Latin, uppercase

USV	M	S	Е	Р	D	L	G	Macro	Description
u+1D56C	\mathfrak{A}	U	\mathfrak{A}	\mathfrak{A}	\mathfrak{A}	21	श	\mbffrakA	mathematical bold fraktur capital a

	M	S	Е	P	D	L	G	Macro	Description
USV									Description
U+1D56D	\mathfrak{B}	8	23	\mathfrak{B}	\mathfrak{B}	8	\mathfrak{B}	\mbffrakB	mathematical bold fraktur capital b
					_		~		
U+1D56E	C	C	C	C	C	C	C	\mbffrakC	mathematical bold fraktur capital c
U+1D56F	\mathfrak{D}	2	\mathfrak{D}	\mathfrak{D}	\mathfrak{D}	2	D	\mbffrakD	mathematical bold fraktur capital d
U+1D570	Œ	Œ	Œ	Œ	Œ	Œ	Œ	\mbffrakE	mathematical bold fraktur capital e
									•
U+1D571	\mathfrak{F}	\mbffrakF	mathematical bold fraktur capital f						
									Capitai i
U+1D572	G	ß	G	G	G	ß	6	\mbffrakG	mathematical bold fraktur
									capital g
U+1D573	55	H	H	55	55	H	5	\mbffrakH	mathematical bold fraktur
313		~				~			capital h
U+1D574	I	S	I	I	3	ន	3	\mbffrakI	mathematical bold fraktur
0 123/4		~			-	•		(morri diri	capital i
**! 45===	~	\mathfrak{F}	\mathfrak{J}	\mathfrak{J}	\mathfrak{J}	\mathfrak{F}	3	\h.f.f	
U+1D575	J	บ	J	บ	υ	ป	ð	\mbffrakJ	mathematical bold fraktur capital j
	e	6	6	6	6	6	0	\	
U+1D576	R	R	R	A	A	R	Я	\mbffrakK	mathematical bold fraktur capital k
	_						•		
U+1D577	\mathfrak{L}	L	\mathfrak{L}	\mathfrak{L}	\mathfrak{L}	L	£	\mbffrakL	mathematical bold fraktur capital l
U+1D578	M	M	M	M	M	M	M	\mbffrakM	mathematical bold fraktur capital m
U+1D579	N	N	N	N	M	N	N	\mbffrakN	mathematical bold fraktur capital n
									•
U+1D57A	O	\mathfrak{D}	D	O	D	\mathfrak{D}	D	\mbffrak0	mathematical bold fraktur capital o
									Capital O
u+1D57в	P	P	P	P	P	P	P	\mbffrakP	mathematical bold fraktur
									capital p
U+1D57C	Q	Ð	Q	Ω	Q	Q	Q	\mbffrakQ	mathematical bold fraktur
31									capital q
U+1D57D	R	R	R	R	R	R	R	\mbffrakR	mathematical bold fraktur
5 105/0	~ .	**	~ .	~ •	~ ~	**		/moiii avu	capital r
	æ	æ	~	6	6	æ	8	\1.66 .1.6	d
U+1D57E	S	©	S	0	0	©	9	\mbffrakS	mathematical bold fraktur capital s

USV	M	S	Е	P	D	L	G	Macro	Description
U+1D57F	T	T	T	T	T	T	I	\mbffrakT	mathematical bold fraktur capital t
U+1D580	u	u	u	u	u	u	u	\mbffrakU	mathematical bold fraktur capital u
U+1D581	V	Ø	V	V	V	23	V	\mbffrakV	mathematical bold fraktur capital v
U+1D582	W	W	W	W	W	W	W	\mbffrakW	mathematical bold fraktur capital w
U+1D583	X	x	\mathfrak{X}	\mathfrak{X}	X	x	x	\mbffrakX	mathematical bold fraktur capital x
U+1D584	Ŋ	Ð	Ŋ	Ŋ	Ŋ	Ŋ	Ŋ	\mbffrakY	mathematical bold fraktur capital y
U+1D585	3	3	3	3	3	3	3	\mbffrakZ	mathematical bold fraktur capital z

15.2.12 Bold fraktur, Latin, lowercase

USV	M	S	Е	Р	D	L	G	Macro	Description
U+1D586	a	a	a	a	a	a	a	\mbffraka	mathematical bold fraktur small
u+1D587	ь	ь	ь	b	ь	ь	b	\mbffrakb	mathematical bold fraktur small b
u+1D588	c	c	c	c	c	c	¢	\mbffrakc	mathematical bold fraktur small
u+1D589	ð	b	ð	ð	ð	b	ð	\mbffrakd	mathematical bold fraktur small d
u+1d58a	e	e	e	e	e	e	e	\mbffrake	mathematical bold fraktur small
u+1D58в	f	f	f	f	f	f	f	\mbffrakf	mathematical bold fraktur small f
u+1D58c	\mathfrak{g}	g	\mathfrak{g}	\mathfrak{g}	\mathfrak{g}	g	g	\mbffrakg	mathematical bold fraktur small
u+1D58D	h	ħ	h	h	h	ħ	h	\mbffrakh	mathematical bold fraktur small h
u+1D58e	i	i	i	i	i	i	i	\mbffraki	mathematical bold fraktur small i

usv	M	S	E	P	D	L	G	Macro	Description
U+1D58F	j	j	j	j	j	j	i	\mbffrakj	mathematical bold fraktur small j
u+1D590	ŧ	ŧ	ŧ	ŧ	ŧ	ţ	ŧ	\mbffrakk	mathematical bold fraktur small k
u+1D591	ι	t	ι	ı	ı	ţ	I	\mbffrakl	mathematical bold fraktur small l
U+1D592	m	m	m	m	m	m	m	\mbffrakm	mathematical bold fraktur small
U+1D593	n	n	n	n	n	n	n	\mbffrakn	mathematical bold fraktur small n
U+1D594	0	ø	0	0	0	ø	0	\mbffrako	mathematical bold fraktur small
U+1D595	p	Þ	þ	þ	þ	Þ	p	\mbffrakp	mathematical bold fraktur small
u+1D596	q	q	q	q	q	q	q	\mbffrakq	mathematical bold fraktur small
u+1D597	r	r	r	r	r	r	r	\mbffrakr	mathematical bold fraktur small
u+1D598	s	ß	s	s	s	ş	\$	\mbffraks	mathematical bold fraktur small
U+1D599	ť	t	ť	ŧ	ŧ	t	t	\mbffrakt	mathematical bold fraktur small t
u+1D59A	u	u	u	u	u	u	u	\mbffraku	mathematical bold fraktur small
u+1D59B	υ	b	υ	υ	v	b	v	\mbffrakv	mathematical bold fraktur small
u+1D59C	w	w	w	w	w	w	w	\mbffrakw	mathematical bold fraktur small
U+1D59D	ŗ	¥	ŗ	ŗ	ŗ	¥	x	\mbffrakx	mathematical bold fraktur small
U+1D59E	ŋ	ŋ	ŋ	ŋ	ŋ	ŋ	ŋ	\mbffraky	mathematical bold fraktur small y
U+1D59F	3	3	3	3	3	3	3	\mbffrakz	mathematical bold fraktur small

15.2.13 Bold sans serif, Latin, uppercase

USV	M	S	Е	Р	D	L	G	Macro	Description
U+1D5D4	Α	Α	Α	A	A	A	A	\mbfsansA	mathematical sans-serif bold capital a
U+1D5D5	В	В	В	В	В	В	В	\mbfsansB	mathematical sans-serif bold capital b
U+1D5D6	С	С	С	C	С	C	C	\mbfsansC	mathematical sans-serif bold capital c
U+1D5D7	D	D	D	D	D	D	D	\mbfsansD	mathematical sans-serif bold capital d
U+1D5D8	E	E	E	E	E	E	E	\mbfsansE	mathematical sans-serif bold capital e
U+1D5D9	F	F	F	F	F	F	F	\mbfsansF	mathematical sans-serif bold capital f
U+1D5DA	G	G	G	G	G	G	G	\mbfsansG	mathematical sans-serif bold capital g
U+1D5DB	Н	н	Н	н	Н	Н	Н	\mbfsansH	mathematical sans-serif bold capital h
U+1D5DC	ı	ı	1	ī	ī	I	ı	\mbfsansI	mathematical sans-serif bold capital i
U+1D5DD	J	J	J	J	J	J	J	\mbfsansJ	mathematical sans-serif bold capital j
U+1D5DE	K	K	K	K	K	K	K	\mbfsansK	mathematical sans-serif bold capital k
U+1D5DF	L	L	L	L	L	L	L	\mbfsansL	mathematical sans-serif bold capital l
U+1D5E0	М	M	M	M	M	M	M	\mbfsansM	mathematical sans-serif bold capital m
U+1D5E1	N	N	N	N	N	N	N	\mbfsansN	mathematical sans-serif bold capital n
U+1D5E2	0	0	0	0	0	O	0	\mbfsans0	mathematical sans-serif bold capital o
U+1D5E3	P	P	P	P	P	P	P	\mbfsansP	mathematical sans-serif bold capital p
u+1D5E4	Q	Q	Q	Q	Q	Q	Q	\mbfsansQ	mathematical sans-serif bold capital q
U+1D5E5	R	R	R	R	R	R	R	\mbfsansR	mathematical sans-serif bold capital r

USV	M	S	Е	P	D	L	G	Macro	Description
u+1D5E6	S	S	S	S	S	S	S	\mbfsansS	mathematical sans-serif bold capital s
U+1D5E7	Т	т	Т	т	Т	Т	Т	\mbfsansT	mathematical sans-serif bold capital t
u+1D5E8	U	U	U	U	U	U	U	\mbfsansU	mathematical sans-serif bold capital u
U+1D5E9	V	V	V	V	V	V	V	\mbfsansV	mathematical sans-serif bold capital v
U+1D5EA	W	w	W	W	W	W	w	\mbfsansW	mathematical sans-serif bold capital w
U+1D5EB	X	X	X	X	X	X	X	\mbfsansX	mathematical sans-serif bold capital x
U+1D5EC	Y	Y	Y	Y	Y	Y	Y	\mbfsansY	mathematical sans-serif bold capital y
U+1D5ED	Z	Z	Z	Z	Z	Z	Z	\mbfsansZ	mathematical sans-serif bold capital z

15.2.14 Bold sans serif, Latin, lowercase

USV	M	S	E	P	D	L	G	Macro	Description
U+1D5EE	a	а	a	a	a	a	a	\mbfsansa	mathematical sans-serif bold small a
u+1D5ef	b	b	b	b	b	b	b	\mbfsansb	mathematical sans-serif bold small b
u+1D5F0	С	c	С	C	C	c	c	\mbfsansc	mathematical sans-serif bold small c
U+1D5F1	d	d	d	d	d	d	d	\mbfsansd	mathematical sans-serif bold small d
U+1D5F2	е	е	e	е	е	e	e	\mbfsanse	mathematical sans-serif bold small e
U+1D5F3	f	f	f	f	f	f	f	\mbfsansf	mathematical sans-serif bold small f
U+1D5F4	g	g	g	g	g	g	g	\mbfsansg	mathematical sans-serif bold small g
U+1D5F5	h	h	h	h	h	h	h	\mbfsansh	mathematical sans-serif bold small h

USV	M	S	Е	P	D	L	G	Macro	Description
u+1D5F6	i	i	i	i	i	i	i	\mbfsansi	mathematical sans-serif bold small i
u+1D5F7	j	j	j	j	j	j	j	\mbfsansj	mathematical sans-serif bold small j
U+1D5F8	k	k	k	k	k	k	k	\mbfsansk	mathematical sans-serif bold small k
u+1D5F9	1	ι	1	1	ı	1	1	\mbfsansl	mathematical sans-serif bold small l
u+1D5FA	m	m	m	m	m	m	m	\mbfsansm	mathematical sans-serif bold small m
U+1D5FB	n	n	n	n	n	n	n	\mbfsansn	mathematical sans-serif bold small n
U+1D5FC	0	0	0	0	0	0	0	\mbfsanso	mathematical sans-serif bold small o
u+1D5FD	p	p	p	р	р	p	p	\mbfsansp	mathematical sans-serif bold small p
u+1D5FE	q	q	q	q	q	q	q	\mbfsansq	mathematical sans-serif bold small q
u+1D5FF	r	r	r	r	r	r	r	\mbfsansr	mathematical sans-serif bold small r
u+1D600	s	s	S	S	S	S	S	\mbfsanss	mathematical sans-serif bold small s
u+1D601	t	t	t	t	t	t	t	\mbfsanst	mathematical sans-serif bold small t
U+1D602	u	u	u	u	u	u	u	\mbfsansu	mathematical sans-serif bold small u
U+1D603	V	v	v	v	v	v	v	\mbfsansv	mathematical sans-serif bold small v
u+1D604	w	w	w	w	w	w	w	\mbfsansw	mathematical sans-serif bold small w
u+1D605	x	x	X	x	X	x	x	\mbfsansx	mathematical sans-serif bold small x
U+1D606	y	у	y	у	у	у	у	\mbfsansy	mathematical sans-serif bold small y
u+1D607	Z	Z	Z	Z	z	Z	Z	\mbfsansz	mathematical sans-serif bold small z

15.2.15 Bold italic sans serif, Latin, uppercase

USV	M	S	Е	P	D	L	G	Macro	Description
u+1D63C	A	Α	A	A	A	A	A	\mbfitsansA	mathematical sans-serif bold italic capital a
u+1D63D	В	В	В	В	В	В	В	\mbfitsansB	mathematical sans-serif bold italic capital b
U+1D63E	C	С	C	C	C	C	C	\mbfitsansC	mathematical sans-serif bold italic capital c
U+1D63F	D	D	D	D	D	D	D	\mbfitsansD	mathematical sans-serif bold italic capital d
u+1D640	E	E	E	E	E	E	E	\mbfitsansE	mathematical sans-serif bold italic capital e
u+1D641	F	F	F	F	F	F	F	\mbfitsansF	mathematical sans-serif bold italic capital f
u+1D642	G	G	G	G	G	G	G	\mbfitsansG	mathematical sans-serif bold italic capital g
u+1D643	Н	Н	Н	Н	Н	Н	Н	\mbfitsansH	mathematical sans-serif bold italic capital h
u+1D644	1	1	1	I	1	I	I	\mbfitsansI	mathematical sans-serif bold italic capital i
U+1D645	J	J	J	J	J	J	J	\mbfitsansJ	mathematical sans-serif bold italic capital j
U+1D646	K	K	K	K	K	K	K	\mbfitsansK	mathematical sans-serif bold italic capital k
u+1D647	L	L	L	L	L	L	L	\mbfitsansL	mathematical sans-serif bold italic capital l
U+1D648	M	М	M	M	M	М	М	\mbfitsansM	mathematical sans-serif bold italic capital m
u+1D649	N	N	N	N	N	N	N	\mbfitsansN	mathematical sans-serif bold italic capital n
u+1d64a	0	0	0	0	0	0	0	\mbfitsans0	mathematical sans-serif bold italic capital o
U+1D64B	P	P	P	P	P	P	P	\mbfitsansP	mathematical sans-serif bold italic capital p
U+1D64C	Q	Q	Q	Q	Q	Q	Q	\mbfitsansQ	mathematical sans-serif bold italic capital q

USV	M	S	Е	Р	D	L	G	Macro	Description
u+1D64D	R	R	R	R	R	R	R	\mbfitsansR	mathematical sans-serif bold italic capital r
u+1D64E	S	S	S	5	5	S	S	\mbfitsansS	mathematical sans-serif bold italic capital s
u+1D64F	T	T	T	T	T	T	T	\mbfitsansT	mathematical sans-serif bold italic capital t
U+1D650	U	U	U	U	U	U	U	\mbfitsansU	mathematical sans-serif bold italic capital u
U+1D651	V	V	V	V	V	V	V	\mbfitsansV	mathematical sans-serif bold italic capital v
U+1D652	W	W	W	W	W	W	W	\mbfitsansW	mathematical sans-serif bold italic capital w
U+1D653	X	X	X	X	X	X	X	\mbfitsansX	mathematical sans-serif bold italic capital x
u+1D654	Y	Y	Y	Y	Y	Y	Y	\mbfitsansY	mathematical sans-serif bold italic capital y
U+1D655	Z	Z	Z	Z	Z	Z	Z	\mbfitsansZ	mathematical sans-serif bold italic capital z

15.2.16 Bold italic sans serif, Latin, lowercase

USV	M	S	Е	Р	D	L	G	Macro	Description
U+1D656	a	а	a	а	a	а	а	\mbfitsansa	mathematical sans-serif bold italic small a
u+1D657	b	b	b	b	b	b	b	\mbfitsansb	mathematical sans-serif bold italic small b
u+1D658	c	c	C	C	C	c	c	\mbfitsansc	mathematical sans-serif bold italic small c
u+1D659	d	d	d	d	d	d	d	\mbfitsansd	mathematical sans-serif bold italic small d
u+1d65a	e	e	e	e	e	e	e	\mbfitsanse	mathematical sans-serif bold italic small e
u+1D65в	f	f	f	f	f	f	f	\mbfitsansf	mathematical sans-serif bold italic small f
u+1D65C	g	g	g	g	g	g	g	\mbfitsansg	mathematical sans-serif bold italic small g

USV	M	S	Е	P	D	L	G	Macro	Description
u+1D65D	h	h	h	h	h	h	h	\mbfitsansh	mathematical sans-serif bold italic small h
U+1D65E	i	i	i	i	i	i	i	\mbfitsansi	mathematical sans-serif bold italic small i
U+1D65F	j	j	j	j	j	j	j	\mbfitsansj	mathematical sans-serif bold italic small j
u+1D660	k	k	k	k	k	k	k	\mbfitsansk	mathematical sans-serif bold italic small k
u+1D661	1	ı	1	1	I	l	l	\mbfitsansl	mathematical sans-serif bold italic small l
U+1D662	m	m	m	m	m	m	m	\mbfitsansm	mathematical sans-serif bold italic small m
U+1D663	n	n	n	n	n	n	n	\mbfitsansn	mathematical sans-serif bold italic small n
U+1D664	0	0	0	0	0	0	0	\mbfitsanso	mathematical sans-serif bold italic small o
U+1D665	p	p	p	p	p	p	p	\mbfitsansp	mathematical sans-serif bold italic small p
U+1D666	q	q	q	q	q	q	q	\mbfitsansq	mathematical sans-serif bold italic small q
U+1D667	r	r	r	r	r	r	r	\mbfitsansr	mathematical sans-serif bold italic small r
U+1D668	s	s	s	S	S	s	s	\mbfitsanss	mathematical sans-serif bold italic small s
u+1D669	t	t	t	t	t	t	t	\mbfitsanst	mathematical sans-serif bold italic small t
u+1D66a	u	и	u	и	u	и	и	\mbfitsansu	mathematical sans-serif bold italic small u
u+1D66в	v	v	v	v	v	v	v	\mbfitsansv	mathematical sans-serif bold italic small v
u+1D66c	w	w	w	w	w	w	w	\mbfitsansw	mathematical sans-serif bold italic small w
u+1D66D	x	x	X	X	X	X	x	\mbfitsansx	mathematical sans-serif bold italic small x
u+1D66e	y	y	y	y	y	y	y	\mbfitsansy	mathematical sans-serif bold italic small y

usv	M	S	E	P	D	L	G	Macro	Description
U+1D66F	Z	Z	Z	Z	Z	Z	Z	\mbfitsansz	mathematical sans-serif bold italic small z

15.2.17 Bold sans serif Greek, uppercase

USV	M	S	Е	P	D	L	G	Macro	Description
U+1D756	A	Α	A	A	A	A	A	\mbfsansAlpha	mathematical sans-serif bold capital alpha
U+1D757	В	В	В	В	В	В	В	\mbfsansBeta	mathematical sans-serif bold capital beta
U+1D758	г	г	Γ	г	Γ	Γ	Γ	\mbfsansGamma	mathematical sans-serif bold capital gamma
U+1D759	Δ	Δ	Δ	Δ	Δ	Δ	Δ	\mbfsansDelta	mathematical sans-serif bold capital delta
U+1D75A	E	E	E	E	E	E	E	\mbfsansEpsilon	mathematical sans-serif bold capital epsilon
U+1D75B	Z	Z	Z	Z	Z	Z	Z	\mbfsansZeta	mathematical sans-serif bold capital zeta
U+1D75C	Н	Н	Н	Н	Н	Н	Н	\mbfsansEta	mathematical sans-serif bold capital eta
U+1D75D	Θ	Θ	Θ	Θ	Θ	Θ	Θ	\mbfsansTheta	mathematical sans-serif bold capital theta
U+1D75E	ı	ı	1	1	ı	I	ı	\mbfsansIota	mathematical sans-serif bold capital iota
U+1D75F	K	K	K	K	K	K	K	\mbfsansKappa	mathematical sans-serif bold capital kappa
u+1D760	٨	٨	٨	٨	٨	٨	٨	\mbfsansLambda	mathematical sans-serif bold capital lambda
u+1D761	М	М	М	М	М	M	M	\mbfsansMu	mathematical sans-serif bold capital mu
U+1D762	N	N	N	N	N	N	N	\mbfsansNu	mathematical sans-serif bold capital nu
U+1D763	Ξ	Ξ	Ξ	Ξ	Ξ	Ξ	Ξ	\mbfsansXi	mathematical sans-serif bold capital xi
u+1D764	0	0	0	0	0	O	o	\mbfsans0micron	mathematical sans-serif bold capital omicron

USV	M	S	Е	Р	D	L	G	Macro	Description
u+1D765	П	П	П	П	П	П	П	\mbfsansPi	mathematical sans-serif bold capital pi
u+1D766	P	P	P	P	P	P	P	\mbfsansRho	mathematical sans-serif bold capital rho
u+1D767	Θ	Θ	Θ	Θ	Θ	θ	θ	\mbfsansvarTheta	mathematical sans-serif bold capital theta symbol
u+1D768	Σ	Σ	Σ	Σ	Σ	Σ	Σ	\mbfsansSigma	mathematical sans-serif bold capital sigma
u+1D769	Т	т	т	т	т	Т	Т	\mbfsansTau	mathematical sans-serif bold capital tau
u+1d76a	Υ	Y	Υ	Y	Υ	Y	Y	\mbfsansUpsilon	mathematical sans-serif bold capital upsilon
и+1D76в	ф	Φ	ф	Ф	Φ	Ф	Ф	\mbfsansPhi	mathematical sans-serif bold capital phi
u+1D76c	X	X	X	X	X	X	X	\mbfsansChi	mathematical sans-serif bold capital chi
u+1D76D	Ψ	Ψ	Ψ	Ψ	Ψ	Ψ	Ψ	\mbfsansPsi	mathematical sans-serif bold capital psi
u+1D76E	Ω	Ω	Ω	Ω	Ω	Ω	Ω	\mbfsans0mega	mathematical sans-serif bold capital omega

15.2.18 Bold sans serif Greek, lowercase

USV	M	S	Е	P	D	L	G	Macro	Description
U+1D770	α	α	α	α	α	α	α	\mbfsansalpha	mathematical sans-serif bold small alpha
U+1D771	β	β	β	β	β	β	β	\mbfsansbeta	mathematical sans-serif bold small beta
U+1D772	۲	γ	7	γ	γ	γ	γ	\mbfsansgamma	mathematical sans-serif bold small gamma
U+1D773	δ	δ	δ	δ	δ	δ	δ	\mbfsansdelta	mathematical sans-serif bold small delta
u+1D774	ε	ε	ε	3	3	3	ε	\mbfsansvarepsilon	mathematical sans-serif bold small varepsilon
U+1D775	ζ	ζ	ζ	ζ	ζ	ζ	ζ	\mbfsanszeta	mathematical sans-serif bold small zeta

usv	M	S	E	Р	D	L	G	Macro	Description
u+1D776	η	η	η	η	η	η	η	\mbfsanseta	mathematical sans-serif bold small eta
U+1D777	θ	θ	θ	θ	θ	θ	θ	\mbfsanstheta	mathematical sans-serif bold small theta
u+1D778	ι	ι	ι	ι	ι	ι	ι	\mbfsansiota	mathematical sans-serif bold small iota
U+1D779	κ	K	κ	K	K	K	к	\mbfsanskappa	mathematical sans-serif bold small kappa
U+1D77A	λ	λ	λ	λ	λ	λ	λ	\mbfsanslambda	mathematical sans-serif bold small lambda
U+1D77B	μ	μ	μ	μ	μ	μ	μ	\mbfsansmu	mathematical sans-serif bold small mu
U+1D77C	ν	ν	ν	ν	ν	v	v	\mbfsansnu	mathematical sans-serif bold small nu
U+1D77D	ξ	ξ	ξ	ξ	ξ	ξ	ξ	\mbfsansxi	mathematical sans-serif bold small xi
U+1D77E	0	0	0	0	0	0	0	\mbfsansomicron	mathematical sans-serif bold small omicron
U+1D77F	π	π	π	π	π	π	π	\mbfsanspi	mathematical sans-serif bold small pi
u+1D780	ρ	ρ	ρ	ρ	ρ	ρ	ρ	\mbfsansrho	mathematical sans-serif bold small rho
u+1D781	ς	ς	ς	ς	ς	S	S	\mbfsansvarsigma	mathematical sans-serif bold small final sigma
u+1D782	σ	σ	σ	σ	σ	σ	σ	\mbfsanssigma	mathematical sans-serif bold small sigma
u+1D783	τ	τ	τ	τ	τ	τ	τ	\mbfsanstau	mathematical sans-serif bold small tau
u+1D784	υ	U	υ	υ	υ	υ	υ	\mbfsansupsilon	mathematical sans-serif bold small upsilon
u+1D785	φ	φ	φ	φ	φ	φ	φ	\mbfsansvarphi	mathematical sans-serif bold small phi
u+1D786	χ	X	χ	X	X	χ	χ	\mbfsanschi	mathematical sans-serif bold small chi
U+1D787	ψ	ψ	ψ	Ψ	Ψ	ψ	ψ	\mbfsanspsi	mathematical sans-serif bold small psi

USV	M	S	Е	Р	D	L	G	Macro	Description
u+1D788	ω	ω	ω	ω	ω	ω	ω	\mbfsansomega	mathematical sans-serif bold small omega
u+1D789	9	9	9	9	9			\mbfsanspartial	mathematical sans-serif bold partial differential
u+1D78a	€	ε	€	E	€		ε	\mbfsansepsilon	mathematical sans-serif bold varepsilon symbol
u+1D78в	ϑ	9	ϑ	9	8	9	9	\mbfsansvartheta	mathematical sans-serif bold theta symbol
u+1D78c	и	x	и	×	×			\mbfsansvarkappa	mathematical sans-serif bold kappa symbol
u+1D78D	ф	ф	ф	ф	ф			\mbfsansphi	mathematical sans-serif bold phi symbol
u+1D78e	Q	ę	Q	6	6			\mbfsansvarrho	mathematical sans-serif bold rho symbol
u+1d78f	ω	យ	ω	ធ	យ			\mbfsansvarpi	mathematical sans-serif bold pi symbol

15.2.19 Bold italic sans serif Greek, uppercase

USV	M	S	Е	P	D	L	G	Macro	Description
U+1D790	A	Α	A	A	A	A		\mbfitsansAlpha	mathematical sans-serif bold italic capital alpha
U+1D791	В	В	В	В	В	В		\mbfitsansBeta	mathematical sans-serif bold italic capital beta
U+1D792	Γ	Γ	Γ	Γ	Γ	Γ		\mbfitsansGamma	mathematical sans-serif bold italic capital gamma
U+1D793	Δ	Δ	Δ	Δ	Δ	Δ		\mbfitsansDelta	mathematical sans-serif bold italic capital delta
U+1D794	E	E	E	E	E	E		\mbfitsansEpsilon	mathematical sans-serif bold italic capital epsilon
U+1D795	Z	Z	Z	Z	Z	Z		\mbfitsansZeta	mathematical sans-serif bold italic capital zeta
u+1D796	Н	Н	Н	Н	Н	Н		\mbfitsansEta	mathematical sans-serif bold italic capital eta
U+1D797	Θ	Θ	Θ	Θ	0	Θ		\mbfitsansTheta	mathematical sans-serif bold italic capital theta

USV	M	S	Е	Р	D	L	G	Macro	Description
u+1D798	1	1	1	I	I	I		\mbfitsansIota	mathematical sans-serif bold italic capital iota
U+1D799	K	K	K	K	K	K		\mbfitsansKappa	mathematical sans-serif bold italic capital kappa
u+1D79A	Λ	Λ	Λ	Λ	Λ	Λ		\mbfitsansLambda	mathematical sans-serif bold italic capital lambda
и+1D79в	М	М	М	М	М	М		\mbfitsansMu	mathematical sans-serif bold italic capital mu
u+1D 79 C	N	N	N	N	N	N		\mbfitsansNu	mathematical sans-serif bold italic capital nu
u+1D79D	Ξ	Ξ	Ξ	Ξ	Ξ	Ξ		\mbfitsansXi	mathematical sans-serif bold italic capital xi
u+1D79E	0	0	0	0	0	0		\mbfitsans0micron	mathematical sans-serif bold italic capital omicron
u+1D79F	П	П	П	П	П	П		\mbfitsansPi	mathematical sans-serif bold italic capital pi
U+1D7A0	P	P	P	P	P	P		\mbfitsansRho	mathematical sans-serif bold italic capital rho
U+1D7A1	θ	θ	θ	θ	θ	θ		\mbfitsansvarTheta	mathematical sans-serif bold italic capital theta symbol
U+1D7A2	Σ	Σ	Σ	Σ	Σ	Σ		\mbfitsansSigma	mathematical sans-serif bold italic capital sigma
U+1D7A3	T	Τ	T	T	T	T		\mbfitsansTau	mathematical sans-serif bold italic capital tau
U+1D7A4	r	Y	r	Y	r	Y		\mbfitsansUpsilon	mathematical sans-serif bold italic capital upsilon
U+1D7A5	Φ	Φ	Φ	Φ	Φ	Ф		\mbfitsansPhi	mathematical sans-serif bold italic capital phi
u+1D7A6	X	X	X	X	X	X		\mbfitsansChi	mathematical sans-serif bold italic capital chi
U+1D7A7	ψ	Ψ	ψ	Ψ	Ψ	Ψ		\mbfitsansPsi	mathematical sans-serif bold italic capital psi
u+1D7A8	Ω	Ω	Ω	Ω	Ω	Ω		\mbfitsans0mega	mathematical sans-serif bold italic capital omega

15.2.20 Bold italic sans serif Greek, lowercase

USV	M	S	Е	P	D	L	G	Macro	Description
U+1D7AA	α	α	α	α	α	α		\mbfitsansalpha	mathematical sans-serif bold italic small alpha
U+1D7AB	β	β	β	β	β	β		\mbfitsansbeta	mathematical sans-serif bold italic small beta
U+1D7AC	γ	γ	γ	Y	γ	γ		\mbfitsansgamma	mathematical sans-serif bold italic small gamma
U+1D7AD	δ	δ	δ	δ	δ	δ		\mbfitsansdelta	mathematical sans-serif bold italic small delta
U+1D7AE	ε	ε	ε	ε	ε	ε		\mbfitsansvarepsilon	mathematical sans-serif bold italic small varepsilon
U+1D7AF	ζ	ζ	ζ	ζ	ζ	ζ		\mbfitsanszeta	mathematical sans-serif bold italic small zeta
U+1D7BO	η	η	η	η	η	η		\mbfitsanseta	mathematical sans-serif bold italic small eta
U+1D7B1	θ	θ	θ	θ	θ	θ		\mbfitsanstheta	mathematical sans-serif bold italic small theta
U+1D7B2	L	ι	L	ι	ι	ι		\mbfitsansiota	mathematical sans-serif bold italic small iota
U+1D7B3	κ	K	κ	K	K	K		\mbfitsanskappa	mathematical sans-serif bold italic small kappa
U+1D7B4	λ	λ	λ	λ	λ	λ		\mbfitsanslambda	mathematical sans-serif bold italic small lambda
U+1D7B5	μ	μ	μ	μ	μ	μ		\mbfitsansmu	mathematical sans-serif bold italic small mu
u+1D7в6	ν	ν	ν	ν	ν	ν		\mbfitsansnu	mathematical sans-serif bold italic small nu
U+1D7B7	ξ	ξ	ξ	ξ	ξ	ξ		\mbfitsansxi	mathematical sans-serif bold italic small xi
u+1D7в8	0	0	0	0	0	0		\mbfitsansomicron	mathematical sans-serif bold italic small omicron
U+1D7B9	π	π	π	π	π	π		\mbfitsanspi	mathematical sans-serif bold italic small pi
u+1D7BA	ρ	ρ	ρ	ρ	ρ	ρ		\mbfitsansrho	mathematical sans-serif bold italic small rho
U+1D7BB	ς	ς	ς	ς	ς	S		\mbfitsansvarsigma	mathematical sans-serif bold italic small final sigma

usv	M	S	Е	Р	D	L	G	Macro	Description
u+1D7вС	σ	σ	σ	σ	σ	σ		\mbfitsanssigma	mathematical sans-serif bold italic small sigma
U+1D7BD	τ	τ	τ	τ	τ	τ		\mbfitsanstau	mathematical sans-serif bold italic small tau
u+1D7ве	υ	U	υ	U	U	v		\mbfitsansupsilon	mathematical sans-serif bold italic small upsilon
u+1D7вғ	φ	φ	φ	φ	φ	φ		\mbfitsansvarphi	mathematical sans-serif bold italic small phi
u+1D7C0	χ	X	x	X	X	χ		\mbfitsanschi	mathematical sans-serif bold italic small chi
u+1D7C1	ψ	ψ	ψ	ψ	ψ	ψ		\mbfitsanspsi	mathematical sans-serif bold italic small psi
U+1D7C2	ω	ω	ω	ω	ω	ω		\mbfitsansomega	mathematical sans-serif bold italic small omega
U+1D7C3	ð	д	9	9	9			\mbfitsanspartial	mathematical sans-serif bold italic partial differential
u+1D7C4	ε	ε	ε	ϵ	€			\mbfitsansepsilon	mathematical sans-serif bold italic varepsilon symbol
u+1D7C5	v	9	ð	9	9	Э		\mbfitsansvartheta	mathematical sans-serif bold italic theta symbol
u+1D7C6	и	x	И	×	×			\mbfitsansvarkappa	mathematical sans-serif bold italic kappa symbol
U+1D7C7	φ	φ	φ	φ	φ			\mbfitsansphi	mathematical sans-serif bold italic phi symbol
u+1D7c8	Q	ę	Q	e	6			\mbfitsansvarrho	mathematical sans-serif bold italic rho symbol
u+1D7C9	ω	ω	ω	ω	$\boldsymbol{\omega}$			\mbfitsansvarpi	mathematical sans-serif bold italic pi symbol

15.3 Miscellaneous

USV	M	S	E	P	D	L	G	Macro	Description
U+000F0	ð	ð	ð	ð	ð	ð	ð	\matheth	eth
U+0 2 010	_	_	_	_	_	_	_	\mathhyphen	hyphen

USV	M	S	Е	Р	D	L	G	Macro	Description
U+02102	\mathbb{C}	C	C	C	C	C	\mathbb{C}	\BbbC	/bbb c, open face c
U+0210A		д	g	g	g	$\mathcal Q$	g	\mscrg	/scr g, script letter g
U+0210B	\mathcal{H}	\mathcal{H}	\mathcal{H}	\mathcal{H}	H	\mathcal{H}	\mathcal{H}	\mscrH	hamiltonian (script capital h)
U+0 2 10C	H	\mathfrak{H}	H	H	H	5	\mathfrak{H}	\mfrakH	/frak h, upper case h
U+0 2 10D	H	Н	Н	H	H	\mathbb{H}	H	\ВЬЬН	/bbb h, open face h
U+0210F	\hbar	ħ	ħ	ħ	ħ	ħ	ħ	$\verb \hslash ^{(a)}$	/hslash - variant planck's over 2pi
U+0 2 110	$\mathcal J$	$\mathcal I$	I	\mathcal{I}	J	J	\mathcal{J}	\mscrI	/scr i, script letter i
U+0 2 111	I	\mathfrak{F}	3	I	I	\mathfrak{F}	3	$\operatorname{Im}^{(p)}$	imaginary part
U+02112	\mathcal{L}	\mathcal{L}	\mathscr{L}	L	\mathcal{L}	\mathscr{L}	\mathscr{L}	\mscrL	lagrangian (script capital l)
U+02113	ℓ	ℓ	ℓ	ℓ	e	l	ℓ	\ell ^(p)	cursive small l
U+02115	N	N	N	N	N	N	N	\BbbN	/bbb n, open face n
U+02118	Ø	જી	ଚ	છ	ရု	Ю	Ø	$\mathbf{\backslash wp}^{(\mathrm{p})}$	weierstrass p
U+0 2 119	\mathbb{P}	P	P	\mathbb{P}	\mathbb{P}	\mathbb{P}	\mathbb{P}	\BbbP	/bbb p, open face p
U+0211A	Q	Q	Q	\mathbb{Q}	Q	Q	Q	\BbbQ	/bbb q, open face q
U+0211B	\mathcal{R}	\mathcal{R}	\mathscr{R}	\mathcal{R}	R	${\mathscr R}$	R	\mscrR	/scr r, script letter r
U+0 2 11C	R	R	R	R	R	R	R	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	real part
U+0211D	\mathbb{R}	\mathbb{R}	\mathbb{R}	\mathbb{R}	\mathbb{R}	\mathbb{R}	\mathbb{R}	\BbbR	/bbb r, open face r
U+02124	Z	\mathbb{Z}	Z	\mathbb{Z}	Z	\mathbb{Z}	\mathbb{Z}	\BbbZ	/bbb z, open face z
U+02128	3	3	3	3	3	3	3	\mfrakZ	/frak z, upper case z
U+02129		1						\turnediota	turned iota
U+0212B	Å	Å	Å	Å	Å		Å	\Angstrom	angstrom capital a, ring
U+0 212 C	\mathcal{B}	\mathcal{B}	\mathscr{B}	B	В	${\mathscr B}$	B	\mscrB	bernoulli function (script capital b)

usv	M	S	E	Р	D	L	G	Macro	Description
U+0212D	C	C	C	C	C	C	C	\mfrakC	black-letter capital c
U+0212F		e	e	e	e	e	e	\mscre	/scr e, script letter e
u+0 2 130	\mathcal{E}	\mathcal{E}	8	\mathcal{E}	E	E	E	\mscrE	/scr e, script letter e
U+0 2 131	\mathcal{F}	\mathcal{F}	F	\mathcal{F}_{ℓ}	F	${\mathscr F}$	${\mathscr F}$	\mscrF	/scr f, script letter f
U+02133	\mathcal{M}	\mathcal{M}	M	\mathcal{M}	M	M	M	\mscrM	physics m-matrix (script capital m)
U+02134		o	o	0	σ	0	0	\mscro	order of (script small o)
u+0 2 135	×	×	*	N	N	х	8	${\tt \ \ } {\tt \ \ \ } {\tt \ \ \ } {\tt \ \ } {\tt \ \ } {\tt \ \ } {\tt \ \ \ } {\tt \ \ \ } {\tt \ \ \ \ \ } {\tt \ \ \ \ \ } {\tt \ \ \ \ \ \ } {\tt \ \ \ \ \ \ \ } {\tt \ \ \ \ \ \ \ \ } {\tt \ \ \ \ \ \ \ \ \ \ \ \ } {\tt \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	aleph, hebrew
u+0 2 136	ב	ב	コ	コ	コ	ב	⊐	$\mathbf{\hat{a}}$	beth, hebrew
u+0 2 137	۵	٦	ב	٦	۵	٦	J	$\texttt{\gimel}^{(\texttt{a})}$	gimel, hebrew
u+02138	٦	7	٦	٦	٦	7	٦	${\tt \daleth}^{(a)}$	daleth, hebrew
U+0 2 13D	Q	X	8	Y	ħ		γ	\Bbbgamma	double-struck small gamma
u+0 2 13E	Г	Γ	Γ	Γ	Γ		Γ	\BbbGamma	double-struck capital gamma
u+0213F	П	П	П	Π	П		Π	\BbbPi	double-struck capital pi
U+02202	9	9	9	9	9	Э	9	$\operatorname{\mathbf{ightarpoonup}}^{(p)}$	partial differential
U+02207	∇	∇	∇	∇	∇	Δ	∇	$\nabla^{(p)}$	nabla, del, hamilton operator
U+1D6A4	\imath	ı	ı	1	1	ı	ı	$\mathbf{h}^{(p)}$	mathematical italic small dot- less i
u+1D6A5	J	J	J	J	J	J	J	$\label{eq:jmath} \$	mathematical italic small dot- less j
U+1D6C1	∇	∇	A	∇	∇	Δ	∇	\mbfnabla	mathematical bold nabla
u+1D6fb	∇	∇	∇	∇	∇	∇	abla	\mitnabla	mathematical italic nabla
U+1D735	∇	∇	∇	∇	$oldsymbol{ abla}$	V	V	\mbfitnabla	mathematical bold italic nabla
u+1D76f	▽	V	▽	V	V	4	Δ	\mbfsansnabla	mathematical sans-serif bold nabla

USV	M	S	E	P	D	L	G	Macro	Description
U+1D7A9	V	7	V	7	7	7		\mbfitsansnabla	mathematical sans-serif bold italic nabla
U+1D7CA		F				F		\mbfDigamma	mathematical bold capital digamma
U+1D7CB		F				F		\mbfdigamma	mathematical bold small digamma