

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)

- L Latin Modern Math (1612)
- S STIX Math Two (2460)
- E Erewhon Math (1644)
- P TeX Gyre Pagella Math (1665)
- D DejaVu Math TeX Gyre (1667)

Symbols defined in Plain TeX are indicated with `(p)` after their macro name. L^AT_EX 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.¹

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¹Only a single TeX Gyre Math font is shown here by design as they all largely have the same symbol coverage.

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1 Opening symbols, \mathopen

USV	L	S	E	P	D	Macro	Description
u+00028	(((((\lparen	left parenthesis
u+0005b	[[[[[\lbrack	left square bracket
u+0007b	{	{	{	{	{	\lbrace ^(p)	left curly bracket
u+0221a	✓	✓	✓	✓	✓	\sqrt ^(p)	radical
u+0221b	³√					\cuberoot	cube root
u+0221c	⁴√					\fourthroot	fourth root
u+02308	⌈	⌈	⌈	⌈	⌈	\lceil ^(p)	left ceiling
u+0230a	⌊	⌊	⌊	⌊	⌊	\lfloor ^(p)	left floor
u+0231c	⌜	⌜	⌜	⌜	⌜	\ulcorner	upper left corner
u+0231e	⌞	⌞	⌞	⌞	⌞	\llcorner	lower left corner
u+023b0	⌢	⌢				\lmoustache ^(p)	upper left or lower right curly bracket section
u+02772	⌧					\lbrbrak	light left tortoise shell bracket ornament
u+027c5	⌨					\lbag	left s-shaped bag delimiter
u+027cc	〈					\longdivision	long division
u+027e6	〉	〉	〉	〉	〉	\lBrack	mathematical left white square bracket
u+027e8	⟨	⟨	⟨	⟨	⟨	\langle ^(p)	mathematical left angle bracket
u+027ea	⟪	⟪	⟪	⟪	⟪	\lAngle	mathematical left double angle bracket
u+027ec	〉					\Lbrbrak	mathematical left white tortoise shell bracket
u+027ee	(((((\lgroup ^(p)	mathematical left flattened parenthesis
u+02983	〈					\lBrace	left white curly bracket
u+02985	〈					\lParen	left white parenthesis
u+02987	〈					\llparenthesis	z notation left image bracket
u+02989	〈					\llangle	z notation left binding bracket

USV	L	S	E	P	D	Macro	Description
U+0298B		[\lbrackubar	left square bracket with underbar
U+0298D		[\lbrackultick	left square bracket with tick in top corner
U+0298F		[\lbracklltick	left square bracket with tick in bottom corner
U+02991		<				\angledot	left angle bracket with dot
U+02993		<				\lparenless	left arc less-than bracket
U+02995		<				\Lparengtr	double left arc greater-than bracket
U+02997		(\lblkbrbrak	left black tortoise shell bracket
U+029D8						\lvzigzag	left wiggly fence
U+029DA						\Lvzigzag	left double wiggly fence
U+029FC		<				\lcurvyangle	left pointing curved angle bracket

2 Closing symbols, \mathclose

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

USV	L	S	E	P	D	Macro	Description
U+02992		›				\rangleangledot	right angle bracket with dot
U+02994		›				\rangleparengtr	right arc greater-than bracket
U+02996		﴿				\Rparenless	double right arc less-than bracket
U+02998		﴾				\rbblkbrbrak	right black tortoise shell bracket
U+029D9		﴿				\rvzigzag	right wiggly fence
U+029DB		﴿				\Rvzigzag	right double wiggly fence
U+029FD		﴾				\rcurvyangle	right pointing curved angle bracket

3 Fence symbols, \mathfence

USV	L	S	E	P	D	Macro	Description
U+0007C						\vert^{(p)}	vertical bar
U+02016						\Vert^{(p)}	double vertical bar
U+02980						\Vvert	triple vertical bar delimiter

4 Punctuation symbols, \mathpunct

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

5 ‘Over’ symbols, \mathover

USV	L	S	E	P	D	Macro	Description
U+023B4	$\overline{x+y}$	$\overline{x+y}$	$\overline{x+y}$	$\overline{x+y}$	$\overline{x+y}$	\overbracket	top square bracket
U+023DC	$\widehat{x+y}$	$\widehat{x+y}$	$\widehat{x+y}$	$\widehat{x+y}$	$\widehat{x+y}$	\overparen	top parenthesis (mathematical use)
U+023DE	$\widehat{\widehat{x+y}}$	$\widehat{\widehat{x+y}}$	$\widehat{\widehat{x+y}}$	$\widehat{\widehat{x+y}}$	$\widehat{\widehat{x+y}}$	\overbrace ^(p)	top curly bracket (mathematical use)

6 ‘Under’ symbols, \mathunder

USV	L	S	E	P	D	Macro	Description
U+023B5	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	\underbracket	bottom square bracket
U+023DD	$\underline{\underline{x+y}}$	$\underline{\underline{x+y}}$	$\underline{\underline{x+y}}$	$\underline{\underline{x+y}}$	$\underline{\underline{x+y}}$	\underparen	bottom parenthesis (mathematical use)
U+023DF	$\underline{\underline{\underline{x+y}}}$	$\underline{\underline{\underline{x+y}}}$	$\underline{\underline{\underline{x+y}}}$	$\underline{\underline{\underline{x+y}}}$	$\underline{\underline{\underline{x+y}}}$	\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	L	S	E	P	D	Macro	Description
u+00300	\grave{x}	\acute{x}	\hat{x}	\bar{x}	\breve{x}	$\grave{(p)}$	grave accent
u+00301	\acute{x}	\grave{x}	$\acute{\hat{x}}$	$\acute{\bar{x}}$	$\acute{\breve{x}}$	$\acute{(p)}$	acute accent
u+00302	\hat{x}	$\hat{\grave{x}}$	$\hat{\acute{x}}$	$\hat{\bar{x}}$	$\hat{\breve{x}}$	$\hat{(p)}$	circumflex accent
u+00303	\tilde{x}	$\tilde{\grave{x}}$	$\tilde{\acute{x}}$	$\tilde{\bar{x}}$	$\tilde{\breve{x}}$	$\tilde{(p)}$	tilde
u+00304	\bar{x}	$\bar{\grave{x}}$	$\bar{\acute{x}}$	$\bar{\hat{x}}$	$\bar{\breve{x}}$	$\bar{(p)}$	macron
u+00305	$\bar{\bar{x}}$	$\bar{\bar{\grave{x}}}$	$\bar{\bar{\acute{x}}}$	$\bar{\bar{\hat{x}}}$	$\bar{\bar{\breve{x}}}$	$\overline{(p)}$	overbar embellishment
u+00306	\breve{x}	$\breve{\grave{x}}$	$\breve{\acute{x}}$	$\breve{\hat{x}}$	$\breve{\bar{x}}$	$\breve{(p)}$	breve
u+00307	\dot{x}	$\dot{\grave{x}}$	$\dot{\acute{x}}$	$\dot{\hat{x}}$	$\dot{\bar{x}}$	$\dot{(p)}$	dot above
u+00308	\ddot{x}	$\ddot{\grave{x}}$	$\ddot{\acute{x}}$	$\ddot{\hat{x}}$	$\ddot{\bar{x}}$	$\ddot{(p)}$	dieresis
u+00309	\check{x}	$\check{\grave{x}}$	$\check{\acute{x}}$	$\check{\hat{x}}$	$\check{\bar{x}}$	$\check{(p)}$	combining hook above
u+0030A	\circledx	$\circled{\grave{x}}$	$\circled{\acute{x}}$	$\circled{\hat{x}}$	$\circled{\bar{x}}$	$\circled{(p)}$	ring
u+0030C	$\check{\grave{x}}$	$\check{\acute{x}}$	$\check{\hat{x}}$	$\check{\bar{x}}$	$\check{\breve{x}}$	$\check{(p)}$	caron
u+00310	\circledcirc		\circledcirc			\candrabindu	(non-spacing)
u+00312	\circledcirc			\circledcirc		\circledcirc	combining turned comma above
u+00315	\circledcirc			\circledcirc		\circledcirc	combining comma above right
u+0031A	\circledcirc			\circledcirc		\circledcirc	left angle above (non-spacing)
u+020D0	$\bar{\grave{x}}$	$\bar{\acute{x}}$	$\bar{\hat{x}}$	$\bar{\bar{x}}$	$\bar{\breve{x}}$	$\left\langle\right\rangle_{harpoon}$	combining left harpoon above
u+020D1	\bar{x}	$\bar{\grave{x}}$	$\bar{\acute{x}}$	$\bar{\hat{x}}$	$\bar{\bar{x}}$	$\right\langle\right\rangle_{harpoon}$	combining right harpoon above
u+020D2	\grave{x}	\acute{x}	$\grave{\acute{x}}$	$\acute{\grave{x}}$	$\grave{\acute{\grave{x}}}$	$\left\langle\right\rangle_{vertical}$	combining long vertical line overlay
u+020D7	\vec{x}	$\vec{\grave{x}}$	$\vec{\acute{x}}$	$\vec{\hat{x}}$	$\vec{\bar{x}}$	$\vec{(p)}$	combining right arrow above
u+020DB	$\ddot{\grave{x}}$	$\ddot{\acute{x}}$	$\ddot{\hat{x}}$	$\ddot{\bar{x}}$	$\ddot{\breve{x}}$	$\ddot{(p)}$	combining three dots above
u+020DC	$\ddot{\grave{\acute{x}}}$	$\ddot{\acute{\grave{x}}}$	$\ddot{\hat{\grave{x}}}$	$\ddot{\bar{\grave{x}}}$	$\ddot{\breve{\grave{x}}}$	$\ddot{\grave{(p)}}$	combining four dots above

usv	L	S	E	P	D	Macro	Description
u+020e7						\annuity	combining annuity symbol
u+020e9						\widebridgeabove	combining wide bridge above
u+020f0						\asteraccent	combining asterisk above

8 Accents, \mathaccent

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

usv	L	S	E	P	D	Macro	Description
u+00300						\grave{(p)}	grave accent
u+00301						\acute{(p)}	acute accent
u+00302						\hat{(p)}	circumflex accent
u+00303						\tilde{(p)}	tilde
u+00304						\bar{(p)}	macron
u+00305						\overbar	overbar embellishment
u+00306						\breve{(p)}	breve
u+00307						\dot{(p)}	dot above
u+00308						\ddot{(p)}	dieresis
u+00309						\ovhook	combining hook above
u+0030A						\ocirc	ring
u+0030C						\check{(p)}	caron
u+00310						\candra	candrabindu (non-spacing)
u+00312						\oturnedcomma	combining turned comma above
u+00315						\ocommatopright	combining comma above right
u+0031A						\droang	left angle above (non-spacing)
u+020D0						\leftharpoonaccent	combining left harpoon above

USV	L	S	E	P	D	Macro	Description
U+020D1	\vec{x}	$\vec{\vec{x}}$	\hat{x}	$\vec{\hat{x}}$	$\vec{\vec{\hat{x}}}$	<code>\rightharpoonaccent</code>	combining right harpoon above
U+020D2	\dot{x}	$\dot{\dot{x}}$	\ddot{x}	$\dot{\ddot{x}}$	$\ddot{\dot{x}}$	<code>\vertoverlay</code>	combining long vertical line overlay
U+020D7	\vec{x}	$\vec{\vec{x}}$	$\vec{\hat{x}}$	$\vec{\vec{\hat{x}}}$	$\vec{\vec{\vec{\hat{x}}}}$	<code>\vec{^p}</code>	combining right arrow above
U+020DB	\ddot{x}	$\ddot{\vec{x}}$	$\ddot{\vec{\vec{x}}}$	$\ddot{\vec{\vec{\vec{x}}}}$	$\ddot{\vec{\vec{\vec{\vec{x}}}}}$	<code>\dddot{}</code>	combining three dots above
U+020DC	$\ddot{\vec{x}}$	$\ddot{\vec{\vec{x}}}$	$\ddot{\vec{\vec{\vec{x}}}}$	$\ddot{\vec{\vec{\vec{\vec{x}}}}}$	$\ddot{\vec{\vec{\vec{\vec{\vec{x}}}}}$	<code>\dddot{}</code>	combining four dots above
U+020E7	$\overline{\vec{x}}$					<code>\annuity</code>	combining annuity symbol
U+020E9	\widehat{x}	$\widehat{\vec{x}}$	$\widehat{\vec{\vec{x}}}$	$\widehat{\vec{\vec{\vec{x}}}}$	$\widehat{\vec{\vec{\vec{\vec{x}}}}}$	<code>\widebridgeabove</code>	combining wide bridge above
U+020F0	\ast	$\ast\vec{x}$	$\ast\vec{\vec{x}}$	$\ast\vec{\vec{\vec{x}}}$	$\ast\vec{\vec{\vec{\vec{x}}}}$	<code>\asteraccent</code>	combining asterisk above

9 Bottom accents, \mathbotaccent

USV	L	S	E	P	D	Macro	Description
U+020E8	\underline{x}	$\underline{\underline{x}}$	$\underline{\underline{\underline{x}}}$	$\underline{\underline{\underline{\underline{x}}}}$	$\underline{\underline{\underline{\underline{\underline{x}}}}}$	<code>\threeunderdot</code>	combining triple underdot

10 Bottom accents wide, \mathbotaccentwide

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

usv	L	S	E	P	D	Macro	Description

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	L	S	E	P	D	Macro	Description
u+02140	$\sum\limits_0^1$	$\sum\limits_0^1$	$\sum\limits_0^1$	$\sum\limits_0^1$	$\sum\limits_0^1$	<code>\Bbbsum</code>	double-struck n-ary summation
u+0220F	$\prod\limits_0^1$	$\prod\limits_0^1$	$\prod\limits_0^1$	$\prod\limits_0^1$	$\prod\limits_0^1$	<code>\prod^{(p)}</code>	product operator
u+02210	$\coprod\limits_0^1$	$\coprod\limits_0^1$	$\coprod\limits_0^1$	$\coprod\limits_0^1$	$\coprod\limits_0^1$	<code>\coprod^{(p)}</code>	coproduct operator
u+02211	$\sum\limits_0^1$	$\sum\limits_0^1$	$\sum\limits_0^1$	$\sum\limits_0^1$	$\sum\limits_0^1$	<code>\sum^{(p)}</code>	summation operator
u+0222B	$\int\limits_0^1$	$\int\limits_0^1$	$\int\limits_0^1$	$\int\limits_0^1$	$\int\limits_0^1$	<code>\int^{(p)}</code>	integral operator
u+0222C	$\iint\limits_0^1$	$\iint\limits_0^1$	$\iint\limits_0^1$	$\iint\limits_0^1$	$\iint\limits_0^1$	<code>\iint</code>	double integral operator
u+0222D	$\iiint\limits_0^1$	$\iiint\limits_0^1$	$\iiint\limits_0^1$	$\iiint\limits_0^1$	$\iiint\limits_0^1$	<code>\iiint</code>	triple integral operator
u+0222E	$\oint\limits_0^1$	$\oint\limits_0^1$	$\oint\limits_0^1$	$\oint\limits_0^1$	$\oint\limits_0^1$	<code>\oint^{(p)}</code>	contour integral operator
u+0222F	$\oint\limits_0^1$	$\oint\limits_0^1$	$\oint\limits_0^1$	$\oint\limits_0^1$	$\oint\limits_0^1$	<code>\oint</code>	double contour integral operator
u+02230	$\iiint\limits_0^1$	$\iiint\limits_0^1$	$\iiint\limits_0^1$	$\iiint\limits_0^1$	$\iiint\limits_0^1$	<code>\iiint</code>	triple contour integral operator
u+02231	$\int\limits_0^1$	$\int\limits_0^1$	$\int\limits_0^1$	$\int\limits_0^1$	$\int\limits_0^1$	<code>\intclockwise</code>	clockwise integral
u+02232	$\oint\limits_0^1$	$\oint\limits_0^1$	$\oint\limits_0^1$	$\oint\limits_0^1$	$\oint\limits_0^1$	<code>\varointclockwise</code>	contour integral, clockwise
u+02233	$\oint\limits_0^1$	$\oint\limits_0^1$	$\oint\limits_0^1$	$\oint\limits_0^1$	$\oint\limits_0^1$	<code>\ointctrcclockwise</code>	contour integral, anticlockwise
u+022C0	$\bigwedge\limits_0^1$	$\bigwedge\limits_0^1$	$\bigwedge\limits_0^1$	$\bigwedge\limits_0^1$	$\bigwedge\limits_0^1$	<code>\bigwedge^{(p)}</code>	logical and operator

USV	L	S	E	P	D	Macro	Description
u+022c1	1 0	1 0	1 0	1 0	1 0	\bigvee^{(p)}	logical or operator
u+022c2	1 0	1 0	1 0	1 0	1 0	\bigcap^{(p)}	intersection operator
u+022c3	1 0	1 0	1 0	1 0	1 0	\bigcup^{(p)}	union operator
u+027d5		1 0				\leftouterjoin	left outer join
u+027d6		1 0				\rightouterjoin	right outer join
u+027d7		1 0				\fullouterjoin	full outer join
u+027d8	1 0	1 0	1 0	1 0	1 0	\bigbot	large up tack
u+027d9	1 0	1 0	1 0	1 0	1 0	\bigtop	large down tack
u+029f8		1 0				\xsol	big solidus
u+029f9		1 0				\xbsol	big reverse solidus
u+02a00	1 0	1 0	1 0	1 0	1 0	\bigdot^{(p)}	n-ary circled dot operator
u+02a01	1 0	1 0	1 0	1 0	1 0	\bigoplus^{(p)}	n-ary circled plus operator
u+02a02	1 0	1 0	1 0	1 0	1 0	\bigotimes^{(p)}	n-ary circled times operator
u+02a03	1 0	1 0	1 0	1 0	1 0	\bigcupdot	n-ary union operator with dot
u+02a04	1 0	1 0	1 0	1 0	1 0	\biguplus^{(p)}	n-ary union operator with plus
u+02a05	1 0	1 0	1 0	1 0	1 0	\bigsqcap	n-ary square intersection operator
u+02a06	1 0	1 0	1 0	1 0	1 0	\bigsqcup^{(p)}	n-ary square union operator
u+02a07		1 0				\conjquant	two logical and operator

USV	L	S	E	P	D	Macro	Description
U+02A08						\disjquant	two logical or operator
U+02A09						\bigtimes	n-ary times operator
U+02AOA						\modtwosum	modulo two sum
U+02AOB						\sumint	summation with integral
U+02AOC						\iiint	quadruple integral operator
U+02AOD						\intbar	finite part integral
U+02AOE						\intBar	integral with double stroke
U+02AOF						\fint	integral average with slash
U+02A10						\cirfnint	circulation function
U+02A11						\awint	anticlockwise integration
U+02A12						\rppolint	line integration with rectangular path around pole
U+02A13						\scpolint	line integration with semicircular path around pole
U+02A14						\npolint	line integration not including the pole
U+02A15						\pointint	integral around a point operator
U+02A16						\sqint	quaternion integral operator
U+02A17						\intlarhk	integral with leftwards arrow with hook
U+02A18						\intx	integral with times sign

USV	L	S	E	P	D	Macro	Description
U+02A19						\intcap	integral with intersection
U+02A1A						\intcup	integral with union
U+02A1B						\upint	integral with overbar
U+02A1C						\lowint	integral with underbar
U+02A1D						\Join	join
U+02A1E						\bigtriangleleft	large left triangle operator
U+02A1F						\zcmp	z notation schema composition
U+02A20						\zpipe	z notation schema piping
U+02A21						\zproject	z notation schema projection
U+02AFC						\biginterleave	large triple vertical bar operator
U+02AFF						\bigtalloblong	n-ary white vertical bar
U+1EEFO						\arabicmaj	arabic mathematical operator meem with hah with tatweel
U+1EEF1						\arabichad	arabic mathematical operator hah with dal

12 Binary relations, \mathbin

USV	L	S	E	P	D	Macro	Description
U+00002B	+	+	+	+	+	\mathplus	plus sign b:
U+0000B1	±	±	±	±	±	\pm^{(p)}	plus-or-minus sign
U+0000B7	·	·	·	·	·	\cdotdotp^{(p)}	/centerdot b: middle dot
U+0000D7	×	×	×	×	×	\times^{(p)}	multiply sign
U+0000F7	÷	÷	÷	÷	÷	\div^{(p)}	divide sign
U+02020	†	†	†	†	†	\dagger^{(p)}	dagger relation
U+02021	‡	‡	‡	‡	‡	\ddagger^{(p)}	double dagger relation
U+02022	•	•	•	•	•	\smbblkcircle	/bullet b: round bullet, filled
U+02040	~					\tieconcat	character tie, z notation sequence concatenation
U+02044	/	/	/	/	/	\fracslash	fraction slash
U+0214B	ꝧ	ꝧ				\upand	turned ampersand
U+02212	—	—	—	—	—	\minus	minus sign
U+02213	⊟	⊟	⊟	⊟	⊟	\mp^{(p)}	minus-or-plus sign
U+02214	+	+	+	+	+	\dotplus^{(a)}	plus sign, dot above
U+02215	/	/	/	/	/	\divslash	division slash
U+02216	＼	＼	＼	＼	＼	\smallsetminus^{(a)}	small set minus (cf. reverse solidus)
U+02217	*	*	*	*	*	\ast^{(p)}	centered asterisk
U+02218	◦	◦	◦	◦	◦	\vysmwhtcircle	composite function (small circle)
U+02219	•	•	•	•	•	\vysmbblkcircle	bullet operator
U+02227	∧	∧	∧	∧	∧	\wedge^{(p)}	/wedge /land b: logical and
U+02228	∨	∨	∨	∨	∨	\vee^{(p)}	/vee /lor b: logical or
U+02229	∩	∩	∩	∩	∩	\cap^{(p)}	intersection
U+0222A	∪	∪	∪	∪	∪	\cup^{(p)}	union or logical sum

USV	L	S	E	P	D	Macro	Description
U+022BD	▀	▽	▀	▽	▽	\barvee	bar, vee (large vee)
U+022C4	◊	◊	◊	◊	◊	\smwhtdiamond	white diamond
U+022C5	·	·	·	·	·	\cdot^{(p)}	small middle dot
U+022C6	★	★	★	★	★	\star^{(p)}	small star, filled, low
U+022C7	✳	✳	✳	✳	✳	\divideontimes^{(a)}	division on times
U+022C9	☒	☒	☒	☒	☒	\ltimes^{(a)}	times sign, left closed
U+022CA	☒	☒	☒	☒	☒	\rtimes^{(a)}	times sign, right closed
U+022CB	☒	☒	☒	☒	☒	\leftthreetimes^{(a)}	left semidirect product
U+022CC	☒	☒	☒	☒	☒	\rightthreetimes^{(a)}	right semidirect product
U+022CE	∨	∨	∨	∨	∨	\curlyvee^{(a)}	curly logical or
U+022CF	∧	∧	∧	∧	∧	\curlywedge^{(a)}	curly logical and
U+022D2	∩	∩	∩	∩	∩	\Cap^{(a)}	/cap /doublecap b: double intersection
U+022D3	∪	∪	∪	∪	∪	\Cup^{(a)}	/cup /doublecup b: double union
U+02305	⊓	⊓	⊓	⊓	⊓	\varbarwedge	/barwedge b: logical and, bar above [projective (bar over small wedge)]
U+02306	⊓	⊓	⊓	⊓	⊓	\vardoublebarwedge	/doublebarwedge b: logical and, double bar above [perspective (double bar over small wedge)]
U+0233D	∅					\obar	circle with vertical bar
U+025B3	△	△	△	△	△	\bigtriangleup^{(p)}	big up triangle, open
U+025B7	▷	▷	▷	▷	▷	\triangleright^{(p)}	(large) right triangle, open; z notation range restriction
U+025C1	◁	◁	◁	◁	◁	\triangleleft^{(p)}	(large) left triangle, open; z notation domain restriction
U+025CB	○	○	○	○	●	\mdlgwhtcircle	medium large circle
U+025EB	□					\boxbar	vertical bar in box
U+027C7	∨					\veedot	or with dot inside
U+027D1	▲					\wedgedot	and with dot
U+027E0	◊	◊	◊	◊	◊	\lozengeminus	lozenge divided by horizontal rule

USV	L	S	E	P	D	Macro	Description
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	⊖					\circlehbar	circle with horizontal bar
U+029B6	○					\circledvert	circled vertical bar
U+029B7	□					\circledparallel	circled parallel
U+029B8	⊗					\obslash	circled reverse solidus
U+029B9	①					\operp	circled perpendicular
U+029C0	◁					\olessthan	circled less-than
U+029C1	▷					\ogreaterthan	circled greater-than
U+029C4	☒					\boxdiag	squared rising diagonal slash
U+029C5	☒					\boxbslash	squared falling diagonal slash
U+029C6	✳					\boxast	squared asterisk
U+029C7	▣					\boxcircle	squared small circle
U+029C8	▣					\boxbox	squared square
U+029CD	△					\triangleserifs	triangle with serifs at bottom
U+029D6	☒					\hourglass	white hourglass
U+029D7	☒					\blackhourglass	black hourglass
U+029E2	⊤					\shuffle	shuffle product
U+029EB	◆					\mdlgblklozenge	black lozenge
U+029F5	＼	＼				\setminus^{(p)}	reverse solidus operator
U+029F6	/]					\dsol	solidus with overbar

USV	L	S	E	P	D	Macro	Description
U+02A35		⊗				\otimesrhrim	multiplication sign in right half circle
U+02A36		⊛				\otimeshat	circled multiplication sign with circumflex accent
U+02A37		⊗⊗				\otimes	multiplication sign in double circle
U+02A38		÷				\odiv	circled division sign
U+02A39		△+				\triangleplus	plus sign in triangle
U+02A3A		△-				\triangleminus	minus sign in triangle
U+02A3B		△×				\triangletimes	multiplication sign in triangle
U+02A3C		⊓				\intprod	interior product
U+02A3D		⊔				\intprodr	righthand interior product
U+02A3E		⋮				\fcmp	z notation relational composition
U+02A3F	II	II	II	II	II	\amalg^{(p)}	amalgamation or coproduct
U+02A40	∩					\capdot	intersection with dot
U+02A41	⊖					\uminus	union with minus sign
U+02A42	⊒					\barcup	union with overbar
U+02A43	⊓̄					\barcap	intersection with overbar
U+02A44	⊓̄					\capwedge	intersection with logical and
U+02A45	⊔̄					\cupvee	union with logical or
U+02A46	⊓̄					\cupovercap	union above intersection
U+02A47	⊓̄					\capovercup	intersection above union
U+02A48	⊓̄					\cupbarcap	union above bar above intersection
U+02A49	⊓̄					\capbarcup	intersection above bar above union
U+02A4A	⊓̄					\twocups	union beside and joined with union
U+02A4B	⊓̄					\twocaps	intersection beside and joined with intersection
U+02A4C	⊓̄					\closedvarcup	closed union with serifs

USV	L	S	E	P	D	Macro	Description
U+02A4D		□				\closedvarcap	closed intersection with serifs
U+02A4E		■				\Sqcap	double square intersection
U+02A4F		■				\Sqcup	double square union
U+02A50		☒				\closedvarcupsmashprod	closed union with serifs and smash product
U+02A51		⤶				\wedgeodot	logical and with dot above
U+02A52		⤷				\veeodot	logical or with dot above
U+02A53		⤸				\Wedge	double logical and
U+02A54		⤹				\Vee	double logical or
U+02A55		⤻				\wedgeonwedge	two intersecting logical and
U+02A56		⤼				\veeonvee	two intersecting logical or
U+02A57		⤽				\bigslopedvee	sloping large or
U+02A58		⤾				\bigslopedwedge	sloping large and
U+02A5A		⤸				\wedgemidvert	logical and with middle stem
U+02A5B		⤹				\veemidvert	logical or with middle stem
U+02A5C		⤺				\midbarwedge	logical and with horizontal dash
U+02A5D		⤻				\midbarvee	logical or with horizontal dash
U+02A5E		⤻	⤻			\doublebarwedge ^(a)	logical and with double overbar
U+02A5F		⤸	⤻			\wedgebar	logical and with underbar
U+02A60		⤸				\wedgedoublebar	logical and with double underbar
U+02A61		⤹				\varveebar	small vee with underbar
U+02A62		⤻				\doublebarvee	logical or with double overbar
U+02A63		⤻				\veedoublebar	logical or with double underbar
U+02A64		⤻				\dsub	z notation domain antirestriction
U+02A65		⤻				\rsub	z notation range antirestriction

USV	L	S	E	P	D	Macro	Description
U+02A71						\eqqplus	equals sign above plus sign
U+02A72						\pluseqq	plus sign above equals sign
U+02AF4						\interleave	triple vertical bar binary relation
U+02AF5						\nhVvert	triple vertical bar with horizontal stroke
U+02AF6						\threedotcolon	triple colon operator
U+02AFB						\trslash	triple solidus binary relation
U+02AFD						\sslash	double solidus operator
U+02AFE						\talloblong	white vertical bar

13 Ordinary symbols, \mathord

USV	L	S	E	P	D	Macro	Description
u+00023	#	#	#	#	#	\mathoctothorpe	number sign
u+00024	\$	\$	\$	\$	\$	\mathdollar	dollar sign
u+00025	%	%	%	%	%	\mathpercent	percent sign
u+00026	&	&	&	&	&	\mathampersand	ampersand
u+0002e	\mathperiod	full stop, period
u+0002f	/	/	/	/	/	\mathslash	solidus
u+0003f	?	?	?	?	?	\mathquestion	question mark
u+00040	@	@	@	@	@	\mathatsign	commercial at
u+0005c	\	\	\	\	\	\backslash^{(p)}	reverse solidus
u+000a3	£	£	£	£	£	\mathsterling	pound sign
u+000a5	¥	¥	¥	¥	¥	\mathyen	yen sign
u+000a7	§	§	§	§	§	\mathsection	section symbol
u+000ac	¬	¬	¬	¬	¬	\neg^{(p)}	/neg /lnot not sign
u+000b6	¶	¶	¶	¶	¶	\mathparagraph	paragraph symbol
u+001b5	Ζ	Ζ				\Zbar	impedance (latin capital letter z with stroke)
u+003f6	϶	϶				\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)
u+02032	'	'	'	'	'	\prime^{(p)}	prime or minute, not superscripted
u+02033	''	''	''	''	''	\dprime	double prime or second, not superscripted
u+02034	'''	'''	'''	'''	'''	\trprime	triple prime (not superscripted)

USV	L	S	E	P	D	Macro	Description
U+02035	՚	՚	՚	՚	՚	\backprime ^(a)	reverse prime, not superscripted
U+02036	՞՞	՞՞		՞՞	՞՞	\backdprime	double reverse prime, not superscripted
U+02037	՞՞՞	՞՞՞		՞՞՞	՞՞՞	\backtrprime	triple reverse prime, not superscripted
U+02038		՞				\caretinsert	caret (insertion mark)
U+0203C	!!					\Exclam	double exclamation mark
U+02043	-					\hyphenbullet	rectangle, filled (hyphen bullet)
U+02047	??					\Question	double question mark
U+02057	՚՚՚՚	՚՚՚՚		՚՚՚՚	՚՚՚՚	\qprime	quadruple prime, not superscripted
U+020AC	€	€	€	€	€	\euro	euro sign
U+020DD	○	○	○	○	○	\enclosecircle	combining enclosing circle
U+020DE	□	□	□	□	□	\enclosesquare	combining enclosing square
U+020DF	◇	◇	◇	◇	◇	\enclosediamond	combining enclosing diamond
U+020E4	△	△	△	△	△	\enclosetriangle	combining enclosing upward pointing triangle
U+02107	ؚ	ؚ	ؚ	ؚ	ؚ	\Eulerconst	euler constant
U+0210E	h	h	h	h	h	\Planckconst	planck constant
U+02127	؜	؜	؜	؜	؜	\mho	conductance
U+02132	܍	܍				\Finv ^(a)	turned capital f
U+0213C	܏	܏	܏	܏	܏	\Bbbpi	double-struck small pi
U+02141	ܒ	ܒ				\Game ^(a)	turned sans-serif capital g
U+02142	ܓ					\sansLturned	turned sans-serif capital l
U+02143	ܔ					\sansLmirrored	reversed sans-serif capital l
U+02144	ܕ					\Yup	turned sans-serif capital y
U+02145	ܖ	ܖ	ܖ	ܖ	ܖ	\mitBbbD	double-struck italic capital d
U+02146	ܗ	ܗ	ܗ	ܗ	ܗ	\mitBbbd	double-struck italic small d

USV	L	S	E	P	D	Macro	Description
U+02147	ⓘ	ⓘ	ⓘ	ⓘ	ⓘ	\mitBbbe	double-struck italic small e
U+02148	ⓘ	ⓘ	ⓘ	ⓘ	ⓘ	\mitBbbi	double-struck italic small i
U+02149	ⓘ	ⓘ	ⓘ	ⓘ	ⓘ	\mitBbbj	double-struck italic small j
U+021A4	⏵					\PropertyLine	property line
U+021A8	⏴					\updownarrowbar	up down arrow with base (perpendicular)
U+021B4	⏸	⏹	⏹	⏸	⏹	\linefeed	rightwards arrow with corner downwards
U+021B5	⏸	⏹	⏹	⏸	⏹	\carriagereturn	downwards arrow with corner leftward = carriage return
U+021B8	⏸					\barovernorthwestarrow	north west arrow to long bar
U+021B9	⏸					\barleftarrowrightarrowbar	leftwards arrow to bar over rightwards arrow to bar
U+021BA	⏻	⏻	⏻	⏻	⏻	\acwopencirclearrow	anticlockwise open circle arrow
U+021BB	⏻	⏻	⏻	⏻	⏻	\cwopencirclearrow	clockwise open circle arrow
U+021DE	⏵					\nHuparrow	upwards arrow with double stroke
U+021DF	⏷					\nHdownarrow	downwards arrow with double stroke
U+021E0	⏵	⏵				\leftdashedarrow	leftwards dashed arrow
U+021E1	⏵	⏵				\updashedarrow	upwards dashed arrow
U+021E2	⏶	⏶				\rightdashedarrow	rightwards dashed arrow
U+021E3	⏷	⏷				\downdashedarrow	downwards dashed arrow
U+021E6	⏵	⏹	⏵	⏵	⏹	\leftwhitearrow	leftwards white arrow
U+021E7	⏵	⏹	⏵	⏵	⏹	\upwhitearrow	upwards white arrow
U+021E8	⏶	⏹	⏶	⏶	⏹	\rightwhitearrow	rightwards white arrow
U+021E9	⏷	⏹	⏷	⏷	⏹	\downwhitearrow	downwards white arrow
U+021EA	⏵					\whitearrowupfrombar	upwards white arrow from bar
U+02200	∀	∀	∀	∀	∀	\forall^{(p)}	for all
U+02201	⊖	⊖	⊖	⊖	⊖	\complement^{(a)}	complement sign

USV	L	S	E	P	D	Macro	Description
u+02312		⏜				\proflne	profile of a line
u+02313		⏝				\profsurf	profile of a surface
u+02317		#				\viewdata	viewdata square
u+02319	↶	↶	↶	↶	↶	\turnednot	turned not sign
u+02320	⨍	⨍	⨍	⨍	⨍	\inttop	top half integral
u+02321	⨍	⨍	⨍	⨍	⨍	\intbottom	bottom half integral
u+0232c		⬡				\varhexagonlrbonds	six carbon ring, corner down, double bonds lower right etc
u+02332		▷				\conictaper	conical taper
u+02336		⊤				\topbot	top and bottom
u+02340		⤻				\APLnotbackslash	apl functional symbol backslash bar
u+02353		⊸				\APLboxupcaret	boxed up caret
u+02370		⊸				\APLboxquestion	boxed question mark
u+0237c		⤻				\rangleangledownzigzagarrow	right angle with downwards zigzag arrow
u+02394		⬡				\hexagon	horizontal benzene ring [hexagon flat open]
u+0239B	⁽	⁾	⁽	⁾	⁽	\lparenuend	left parenthesis upper hook
u+0239C	⁽	⁾	⁽	⁾	⁽	\lparenextender	left parenthesis extension
u+0239D	⁽	⁾	⁽	⁾	⁽	\lparenlend	left parenthesis lower hook
u+0239E	⁾	⁾	⁾	⁾	⁾	\rparenuend	right parenthesis upper hook
u+0239F	⁾	⁾	⁾	⁾	⁾	\rparenextender	right parenthesis extension
u+023A0	⁾	⁾	⁾	⁾	⁾	\rparenlend	right parenthesis lower hook
u+023A1	⁽	⁾	⁽	⁾	⁽	\lbrackuend	left square bracket upper corner
u+023A2	⁽	⁾	⁽	⁾	⁽	\lbrackextender	left square bracket extension

USV	L	S	E	P	D	Macro	Description
u+023A3	└	└	└	└	└	\lbrackkend	left square bracket lower corner
u+023A4	┘	┘	┘	┘	┘	\rbrackuend	right square bracket upper corner
u+023A5	┘	┘	┘	┘	┘	\rbrackextender	right square bracket extension
u+023A6	└	└	└	└	└	\rbrackkend	right square bracket lower corner
u+023A7	└	└	└	└	└	\lbraceuend	left curly bracket upper hook
u+023A8	{	{	{	{	{	\lbracemid	left curly bracket middle piece
u+023A9	└	└	└	└	└	\lbracelend	left curly bracket lower hook
u+023AA	┘	┘	┘	┘	┘	\vbraceextender	curly bracket extension
u+023AB	┐	┐	┐	┐	┐	\rbraceuend	right curly bracket upper hook
u+023AC	┐	┐	┐	┐	┐	\rbracemid	right curly bracket middle piece
u+023AD	┐	┐	┐	┐	┐	\rbracelend	right curly bracket lower hook
u+023AE	└	└	└	└	└	\intextender	integral extension
u+023AF	-	-	-	-	-	\harrowskew	horizontal line extension (used to extend arrows)
u+023B2	↖	↖	↖	↖	↖	\sumtop	summation top
u+023B3	↙	↙	↙	↙	↙	\sumbottom	summation bottom
u+023B6	⊜	⊜	⊜	⊜	⊜	\bbrktbrk	bottom square bracket over top square bracket
u+023B7	＼	＼	＼	＼	＼	\sqrtbottom	radical symbol bottom
u+023B8						\lvboxline	left vertical box line
u+023B9						\rvboxline	right vertical box line
u+023CE	⤵	⤵	⤵	⤵	⤵	\varcarriagereturn	return symbol
u+023EO	⤷	⤷	⤷	⤷	⤷	\obrbrak	top tortoise shell bracket (mathematical use)

USV	L	S	E	P	D	Macro	Description
U+023E1	✓	✓		✓	✓	\ubrbrak	bottom tortoise shell bracket (mathematical use)
U+023E2		□				\trapezium	white trapezium
U+023E3		օ				\benzenr	benzene ring with circle
U+023E4		—				\strns	straightness
U+023E5		□				\fltns	flatness
U+023E6		∞				\accurrent	ac current
U+023E7		✗				\elinters	electrical intersection
U+02422	▮	▮	▮	▮	▮	\blanksymbol	blank symbol
U+02423	◻	◻	◻	◻	◻	\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+02590		█				\blockrighthalf	right half block
U+02591	◼	◼	◼	◼	◼	\blockqtrshaded	25% shaded block
U+02592	◼	◼	◼	◼	◼	\blockhalfshaded	50% shaded block
U+02593	◼	◼	◼	◼	◼	\blockthreeqtrshaded	75% shaded block
U+025A0	■	█	■	█	█	\mdlgbblksquare	square, filled
U+025A1	◻	◻	◻	◻	◻	\mdlgwhtsquare	square, open
U+025A2	▢					\squaoval	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

USV	L	S	E	P	D	Macro	Description
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	■	■	■	■	■	\sblkssquare	/blacksquare - sq bullet, filled
U+025AB	□	□	□	□	□	\smwhtsquare	white small square
U+025AC	■	■		■	■	\hrectangleblack	black rectangle
U+025AD	□	□		□	□	\hrectangle	horizontal rectangle, open
U+025AE		■				\vrectangleblack	black vertical rectangle
U+025AF		□				\vrectangle	rectangle, white (vertical)
U+025B0		■				\parallelogramblack	black parallelogram
U+025B1		□				\parallelogram	parallelogram, open
U+025B2	▲	▲	▲	▲	▲	\bigblacktriangleup	black up-pointing triangle
U+025B4	▲	▲				\blacktriangle ^(a)	up triangle, filled
U+025B6	▶	▶	▶	▶	▶	\blacktriangleright ^(a)	(large) right triangle, filled
U+025B8	▶					\smallblacktriangleright	right triangle, filled
U+025B9	▷					\smalltriangleright	right triangle, open
U+025BA	▶		▶			\blackpointerright	black right-pointing pointer
U+025BB	▷					\whitepointerright	white right-pointing pointer
U+025BC	▼	▼	▼	▼	▼	\bigblacktriangledown	big down triangle, filled
U+025BD	▽	▽	▽	▽	▽	\bigtriangledown ^(p)	big down triangle, open
U+025BE	▼	▼				\blacktriangledown ^(a)	down triangle, filled
U+025BF	▽	▽				\triangledown ^(a)	down triangle, open
U+025C0	◀	◀	◀	◀	◀	\blacktriangleleft ^(a)	(large) left triangle, filled

USV	L	S	E	P	D	Macro	Description
U+025C2		◀	◀			\smallblacktriangleleft	left triangle, filled
U+025C3		◀	◀			\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		◇	◇			\mdlgwhtdiamond	white diamond; diamond, open
U+025C8		❖				\blackinwhitediamond	white diamond containing black small diamond
U+025C9		●				\fisheye	fisheye
U+025CA	◊	◊		◊	◊	\mdlgwhtlozenge	lozenge or total mark
U+025CC		○				\dottedcircle	dotted circle
U+025CD		◐				\circlevertfill	circle with vertical fill
U+025CE		◎				\bullseye	bullseye
U+025CF	●	●	●	●	●	\mdlgblkcircle	circle, filled
U+025D0		◐				\circlelefthalfblack	circle, filled left half [harvey ball]
U+025D1		◐				\circlerighthalfblack	circle, filled right half
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		○				\inversewhitecircle	inverse white circle
U+025DA		◐				\invwhiteupperhalfcircle	upper half inverse white circle

USV	L	S	E	P	D	Macro	Description
U+025DB						\invwhitelowerhalfcircle	lower half inverse white circle
U+025DC						\ularc	upper left quadrant circular arc
U+025DD						\urarc	upper right quadrant circular arc
U+025DE						\lrarc	lower right quadrant circular arc
U+025DF						\llarc	lower left quadrant circular arc
U+025E0						\topsemicircle	upper half circle
U+025E1						\botsemicircle	lower half circle
U+025E2						\lrbblacktriangle	lower right triangle, filled
U+025E3						\llbblacktriangle	lower left triangle, filled
U+025E4						\ulbblacktriangle	upper left triangle, filled
U+025E5						\urblacktriangle	upper right triangle, filled
U+025E6	○	○	○	○	○	\smwhtcircle	white bullet
U+025E7						\squareleftblack	square, filled left half
U+025E8						\squarerightblack	square, filled right half
U+025E9						\squareulblack	square, filled top left corner
U+025EA						\squarerlblack	square, filled bottom right corner
U+025EC						\triangledecdot	triangle with centered dot
U+025ED						\triangleleftblack	up-pointing triangle with left half black
U+025EE						\trianglerightblack	up-pointing triangle with right half black
U+025EF	○	○	○	○	○	\lgwhtcircle	large circle
U+025F0						\squareulquad	white square with upper left quadrant
U+025F1						\squarellquad	white square with lower left quadrant
U+025F2						\squarerlquad	white square with lower right quadrant
U+025F3						\squareurquad	white square with upper right quadrant

USV	L	S	E	P	D	Macro	Description
U+025F4		⊕				\circleulquad	white circle with upper left quadrant
U+025F5		⊖				\circlellquad	white circle with lower left quadrant
U+025F6		⊠				\circlelrquad	white circle with lower right quadrant
U+025F7		⊡				\circleurquad	white circle with upper right quadrant
U+025F8		⊢				\ultriangle	upper left triangle
U+025F9		⊣				\urtriangle	upper right triangle
U+025FA		⊤				\lltriangle	lower left triangle
U+025FB		□	□			\mdwhtsquare	white medium square
U+025FC		■	■			\mdblkssquare	black medium square
U+025FD		□				\mdsmwhtsquare	white medium small square
U+025FE		■				\mdsmbblkssquare	black medium small square
U+025FF		△				\lrtriangle	lower right triangle
U+02605	★	★				\bigstar ^(a)	star, filled
U+02606	☆					\bigwhitestar	star, open
U+02609	○					\astrosun	sun
U+02621	哿					\danger	dangerous bend (caution sign)
U+0263B	☺					\blacksmiley	black smiling face
U+0263C	☀					\sun	white sun with rays
U+0263D	☽					\rightmoon	first quarter moon
U+0263E	☾					\leftmoon	last quarter moon
U+02640	♀					\female	venus, female
U+02642	♂					\male	mars, male
U+02660	♠	♠	♠	♠	♠	\spadesuit ^(p)	spades suit symbol
U+02661	♥	♥	♥	♥	♥	\heartsuit ^(p)	heart suit symbol

USV	L	S	E	P	D	Macro	Description
u+02662	♦	♦	♦	♦	♦	\diamondsuit ^(p)	diamond suit symbol
u+02663	♣	♣	♣	♣	♣	\clubsuit ^(p)	club suit symbol
u+02664	♠	♠	♠	♠	♠	\varspadesuit	spade, white (card suit)
u+02665	♥	♥	♥	♥	♥	\varheartsuit	filled heart (card suit)
u+02666	♦	♦	♦	♦	♦	\vardiamondsuit	filled diamond (card suit)
u+02667	♣	♣	♣	♣	♣	\varclubsuit	club, white (card suit)
u+02669		♪				\quarternote	music note (sung text sign)
u+0266A	♪	♪	♪	♪	♪	\eighthnote	eighth note
u+0266B		♪				\twonotes	beamed eighth notes
u+0266D	♭	♭	♭	♭	♭	\flat ^(p)	musical flat
u+0266E	♮	♮	♮	♮	♮	\natural ^(p)	music natural
u+0266F	#	#	#	#	#	\sharp ^(p)	musical sharp
u+0267E	♾					\acidfree	permanent paper sign
u+02680	⚇					\dicei	die face-1
u+02681	⚈					\diceii	die face-2
u+02682	⚉					\diceiii	die face-3
u+02683	⚊					\diceiv	die face-4
u+02684	⚋					\dicev	die face-5
u+02685	⚌					\dicevi	die face-6
u+02686	⚆					\circledrightdot	white circle with dot right
u+02687	⚆					\circledtwodots	white circle with two dots
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

USV	L	S	E	P	D	Macro	Description
U+026AA		○	○			\mdwhtcircle	medium white circle
U+026AB		●	●			\mdblkcircle	medium black circle
U+026AC		○	○			\mdsmwhtcircle	medium small white circle
U+026B2		♀				\neuter	neuter
U+02713	✓	✓	✓	✓	✓	\checkmark	tick, check mark
U+02720	✗	✗	✗	✗	✗	\maltese	maltese cross
U+0272A		★				\circledstar	circled white star
U+02736		*				\varstar	six pointed black star
U+0273D		*				\dingasterisk	heavy teardrop-spoked asterisk
U+0279B		→				\draftingarrow	right arrow with bold head (drafting)
U+027C0		↖				\threedangle	three dimensional angle
U+027C1		▲				\whiteinwhitetriangle	white triangle containing small white triangle
U+027C3		◎				\subsetcirc	open subset
U+027C4		◎				\supsetcirc	open superset
U+027D0		◆				\diamondoncdot	white diamond with centred dot
U+0292B		⤒				\rdiagovfdiag	rising diagonal crossing falling diagonal
U+0292C		⤓				\fdiagovrdiag	falling diagonal crossing rising diagonal
U+0292D		⤔				\seovnearrow	south east arrow crossing north east arrow
U+0292E		⤕				\neovsearrow	north east arrow crossing south east arrow
U+0292F		⤖				\fdiagovnearrow	falling diagonal crossing north east arrow
U+02930		⤗				\rdiagovsearrow	rising diagonal crossing south east arrow
U+02931		⤘				\neovnarrow	north east arrow crossing north west arrow
U+02932		⤙				\nwovnearrow	north west arrow crossing north east arrow
U+02934		⤚	⤛			\uprightcurvearrow	arrow pointing rightwards then curving upwards

USV	L	S	E	P	D	Macro	Description
u+02935		↘	⤵			\downrightcurvedarrow	arrow pointing rightwards then curving downwards
u+02981		●	●			\mdsmbblkcircle	z notation spot
u+02999		⋮				\fourvdots	dotted fence
u+0299A		⠇				\vzigzag	vertical zigzag line
u+0299B		⦿				\measuredangleleft	measured angle opening left
u+0299C		⦾				\rightanglelsqr	right angle variant with square
u+0299D		⦷				\rightanglemdot	measured right angle with dot
u+0299E		⦸				\angles	angle with s inside
u+0299F		⦹				\angdnr	acute angle
u+029A0		⦺				\gtlpar	spherical angle opening left
u+029A1		⦻				\sphericalangleup	spherical angle opening up
u+029A2		⦼				\turnangle	turned angle
u+029A3		⦽				\revangle	reversed angle
u+029A4		⦾				\angleubar	angle with underbar
u+029A5		⦷				\revangleubar	reversed angle with underbar
u+029A6		⦸				\wideangledown	oblique angle opening up
u+029A7		⦹				\wideangleup	oblique angle opening down
u+029A8		⦺				\measanglerutone	measured angle with open arm ending in arrow pointing up and right
u+029A9		⦻				\measanglelutonw	measured angle with open arm ending in arrow pointing up and left
u+029AA		⦼				\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

USV	L	S	E	P	D	Macro	Description
U+029AD						\measangleltonw	measured angle with open arm ending in arrow pointing left and up
U+029AE						\measangledrtose	measured angle with open arm ending in arrow pointing right and down
U+029AF						\measangledltosw	measured angle with open arm ending in arrow pointing left and down
U+029B0						\revemptyset	reversed empty set
U+029B1						\emptysetoverbar	empty set with overbar
U+029B2						\emptysetcirc	empty set with small circle above
U+029B3						\emptysetrightarrow	empty set with right arrow above
U+029B4						\emptysetleftarrow	empty set with left arrow above
U+029BA						\obot	circle divided by horizontal bar and top half divided by vertical bar
U+029BB						\olcross	circle with superimposed x
U+029BC						\odotslashdot	circled anticlockwise-rotated division sign
U+029BD						\uparrowarrowoncircle	up arrow through circle
U+029BE						\circledwhitebullet	circled white bullet
U+029BF						\circledbullet	circled bullet
U+029C2						\cirscir	circle with small circle to the right
U+029C3						\cirE	circle with two horizontal strokes to the right
U+029C9						\boxonbox	two joined squares
U+029CA						\triangleodot	triangle with dot above
U+029CB						\triangleubar	triangle with underbar
U+029CC						\triangles	s in triangle
U+029DC						\iinfin	incomplete infinity
U+029DD						\tieinfty	tie over infinity
U+029DE						\nvinfty	infinity negated with vertical bar

USV	L	S	E	P	D	Macro	Description
U+029E0						\laplac	square with contoured outline
U+029E7						\thermod	thermodynamic
U+029E8						\downtriangleleftblack	down-pointing triangle with left half black
U+029E9						\downtrianglerightblack	down-pointing triangle with right half black
U+029EA						\blackdiamonddownarrow	black diamond with down arrow
U+029EC						\circledownarrow	white circle with down arrow
U+029ED						\blackcircledownarrow	black circle with down arrow
U+029EE						\errbarsquare	error-barred white square
U+029EF						\errbarblacksquare	error-barred black square
U+029F0						\errbardiamond	error-barred white diamond
U+029F1						\errbarblackdiamond	error-barred black diamond
U+029F2						\errbarcircle	error-barred white circle
U+029F3						\errbarblackcircle	error-barred black circle
U+02AE1						\perps	perpendicular with s
U+02AF1						\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+02B19						\diamondbotblack	diamond with bottom half black
U+02B1A						\dottedsquare	dotted square

USV	L	S	E	P	D	Macro	Description
U+02B1B						\lgbblksquare	black large square
U+02B1C						\lgwhtsquare	white large square
U+02B1D		*	■			\vysmblksquare	black very small square
U+02B1E		▫	▫			\vysmwhtsquare	white very small square
U+02B1F						\pentagonblack	black pentagon
U+02B20						\pentagon	white pentagon
U+02B21						\varhexagon	white hexagon
U+02B22						\varhexagonblack	black hexagon
U+02B23						\hexagonblack	horizontal black hexagon
U+02B24			●			\lgbblkcircle	black large circle
U+02B25						\mdblkdiamond	black medium diamond
U+02B26						\mdwhtdiamond	white medium diamond
U+02B27						\mdblklozenge	black medium lozenge
U+02B28						\mdwhtlozenge	white medium lozenge
U+02B29						\smbblkdiamond	black small diamond
U+02B2A						\smbblklozenge	black small lozenge
U+02B2B						\smwhtlozenge	white small lozenge
U+02B2C						\blkhorzoval	black horizontal ellipse
U+02B2D						\whthorzoval	white horizontal ellipse
U+02B2E						\blkvertoval	black vertical ellipse
U+02B2F						\whtvertoval	white vertical ellipse
U+02B50						\medwhitestar	white medium star
U+02B51						\medblackstar	black medium star
U+02B52						\smwhitestar	white small star

USV	L	S	E	P	D	Macro	Description
U+02B53		⬧				\rightpentagonblack	black right-pointing pentagon
U+02B54		⬨				\rightpentagon	white right-pointing pentagon
U+03012		〒				\postalmark	postal mark
U+03030		〰				\hzigzag	zigzag
U+1D7CE	⓪	⓪	⓪	⓪	⓪	\mbfzero	mathematical bold digit 0
U+1D7CF	⓫	⓬	⓫	⓭	⓫	\mbfone	mathematical bold digit 1
U+1D7D0	⓮	⓯	⓮	⓯	⓮	\mbftwo	mathematical bold digit 2
U+1D7D1	⓯	⓯	⓯	⓯	⓯	\mbfthree	mathematical bold digit 3
U+1D7D2	⓯	⓯	⓯	⓯	⓯	\mbffour	mathematical bold digit 4
U+1D7D3	⓯	⓯	⓯	⓯	⓯	\mbffive	mathematical bold digit 5
U+1D7D4	⓯	⓯	⓯	⓯	⓯	\mbfsix	mathematical bold digit 6
U+1D7D5	⓯	⓯	⓯	⓯	⓯	\mbfseven	mathematical bold digit 7
U+1D7D6	⓯	⓯	⓯	⓯	⓯	\mbfeight	mathematical bold digit 8
U+1D7D7	⓯	⓯	⓯	⓯	⓯	\mbfnine	mathematical bold digit 9
U+1D7D8	ⓠ	ⓠ	ⓠ	ⓠ	ⓠ	\Bbbzero	mathematical double-struck digit 0
U+1D7D9	ⓡ	ⓢ	ⓡ	ⓣ	ⓢ	\Bbbone	mathematical double-struck digit 1
U+1D7DA	ⓤ	ⓥ	ⓤ	ⓦ	ⓤ	\Bbbtwo	mathematical double-struck digit 2
U+1D7DB	ⓦ	ⓦ	ⓦ	ⓦ	ⓦ	\Bbbthree	mathematical double-struck digit 3
U+1D7DC	ⓦ	ⓦ	ⓦ	ⓦ	ⓦ	\Bbbfour	mathematical double-struck digit 4
U+1D7DD	ⓦ	ⓦ	ⓦ	ⓦ	ⓦ	\Bbbfive	mathematical double-struck digit 5
U+1D7DE	ⓦ	ⓦ	ⓦ	ⓦ	ⓦ	\Bbbsix	mathematical double-struck digit 6
U+1D7DF	ⓦ	ⓦ	ⓦ	ⓦ	ⓦ	\Bbbseven	mathematical double-struck digit 7
U+1D7EO	ⓦ	ⓦ	ⓦ	ⓦ	ⓦ	\Bbbeight	mathematical double-struck digit 8
U+1D7E1	ⓦ	ⓦ	ⓦ	ⓦ	ⓦ	\Bbbnine	mathematical double-struck digit 9

USV	L	S	E	P	D	Macro	Description
U+1D7E2	0	0	0	0	0	\msanszero	mathematical sans-serif digit 0
U+1D7E3	1	1	1	1	1	\msansone	mathematical sans-serif digit 1
U+1D7E4	2	2	2	2	2	\msanstwo	mathematical sans-serif digit 2
U+1D7E5	3	3	3	3	3	\msansthree	mathematical sans-serif digit 3
U+1D7E6	4	4	4	4	4	\msansfour	mathematical sans-serif digit 4
U+1D7E7	5	5	5	5	5	\msansfive	mathematical sans-serif digit 5
U+1D7E8	6	6	6	6	6	\msanssix	mathematical sans-serif digit 6
U+1D7E9	7	7	7	7	7	\msansseven	mathematical sans-serif digit 7
U+1D7EA	8	8	8	8	8	\msanseight	mathematical sans-serif digit 8
U+1D7EB	9	9	9	9	9	\msansnine	mathematical sans-serif digit 9
U+1D7EC	0	0	0	0	0	\mbfsanszero	mathematical sans-serif bold digit 0
U+1D7ED	1	1	1	1	1	\mbfsansone	mathematical sans-serif bold digit 1
U+1D7EE	2	2	2	2	2	\mbfsanstwo	mathematical sans-serif bold digit 2
U+1D7EF	3	3	3	3	3	\mbfsansthree	mathematical sans-serif bold digit 3
U+1D7F0	4	4	4	4	4	\mbfsansfour	mathematical sans-serif bold digit 4
U+1D7F1	5	5	5	5	5	\mbfsansfive	mathematical sans-serif bold digit 5
U+1D7F2	6	6	6	6	6	\mbfsanssix	mathematical sans-serif bold digit 6
U+1D7F3	7	7	7	7	7	\mbfsansseven	mathematical sans-serif bold digit 7
U+1D7F4	8	8	8	8	8	\mbfsanseight	mathematical sans-serif bold digit 8
U+1D7F5	9	9	9	9	9	\mbfsansnine	mathematical sans-serif bold digit 9
U+1D7F6	0	0	0	0	0	\mttzero	mathematical monospace digit 0
U+1D7F7	1	1	1	1	1	\mttione	mathematical monospace digit 1
U+1D7F8	2	2	2	2	2	\mtttwo	mathematical monospace digit 2
U+1D7F9	3	3	3	3	3	\mttthree	mathematical monospace digit 3

USV	L	S	E	P	D	Macro	Description
U+1D7FA	4	4	4	4	4	\mttfour	mathematical monospace digit 4
U+1D7FB	5	5	5	5	5	\mttfive	mathematical monospace digit 5
U+1D7FC	6	6	6	6	6	\mttsix	mathematical monospace digit 6
U+1D7FD	7	7	7	7	7	\mttseven	mathematical monospace digit 7
U+1D7FE	8	8	8	8	8	\mtteight	mathematical monospace digit 8
U+1D7FF	9	9	9	9	9	\mttnine	mathematical monospace digit 9

14 Relation symbols, \mathrel

USV	L	S	E	P	D	Macro	Description
u+0003c	<	<	<	<	<	\less	less-than sign r:
u+0003d	=	=	=	=	=	\equal	equals sign r:
u+0003e	>	>	>	>	>	\greater	greater-than sign r:
u+02050		○				\closure	close up
u+02190	←	↙	←	↖	↙	\leftarrow(p)	/leftarrow /gets a: leftward arrow
u+02191	↑	↑	↑	↑	↑	\uparrow	upward arrow
u+02192	→	→	→	→	→	\rightarrow(p)	/rightarrow /to a: rightward arrow
u+02193	↓	↓	↓	↓	↓	\downarrow	downward arrow
u+02194	↔	↔	↔	↔	↔	\leftrightarrow(p)	left and right arrow
u+02195	↕	↕	↕	↕	↕	\updownarrow	up and down arrow
u+02196	↖	↗	↖	↗	↖	\nwarrow(p)	nw pointing arrow
u+02197	↗	↗	↗	↗	↗	\nearrow(p)	ne pointing arrow
u+02198	↘	↘	↘	↘	↘	\searrow(p)	se pointing arrow
u+02199	↙	↙	↙	↙	↙	\swarrow(p)	sw pointing arrow
u+0219a	↚	↮	↚	↮	↮	\nleftarrow(a)	not left arrow
u+0219b	↛	↛	↛	↛	↛	\nrightarrow(a)	not right arrow
u+0219c	↜					\leftarrowwavearrow	left arrow-wavy
u+0219d	↝					\rightarrowwavearrow	right arrow-wavy
u+0219e	↞	↠	↞	↠	↠	\twoheadleftarrow(a)	left two-headed arrow
u+0219f	↟	↟	↟	↟	↟	\twoheaduparrow	up two-headed arrow
u+021a0	↠	↠	↠	↠	↠	\twoheadrightarrow(a)	right two-headed arrow
u+021a1	↡	↡	↡	↡	↡	\twoheaddownarrow	down two-headed arrow
u+021a2	↢	↢	↢	↢	↢	\leftarrowtail(a)	left arrow-tailed

USV	L	S	E	P	D	Macro	Description
U+021A3	⤠	⤡	⤢	⤣	⤤	\rightarrowtail ^(a)	right arrow-tailed
U+021A4	⤥	⤦	⤧	⤨	⤩	\mapsfrom	maps to, leftward
U+021A5	⤪	⤫	⤬	⤭	⤮	\mapsup	maps to, upward
U+021A6	⤠	⤡	⤢	⤣	⤤	\mapsto ^(p)	maps to, rightward
U+021A7	⤪	⤫	⤬	⤭	⤮	\mapsdown	maps to, downward
U+021A9	⤠	⤡	⤢	⤣	⤤	\hookleftarrow ^(p)	left arrow-hooked
U+021AA	⤠	⤡	⤢	⤣	⤤	\hookrightarrow ^(p)	right arrow-hooked
U+021AB	⤠	⤡	⤢	⤣	⤤	\looparrowleft ^(a)	left arrow-looped
U+021AC	⤠	⤡	⤢	⤣	⤤	\looparrowright ^(a)	right arrow-looped
U+021AD	⤠	⤡	⤢	⤣	⤤	\leftrightsquigarrow ^(a)	left and right arr-wavy
U+021AE	⤠	⤡	⤢	⤣	⤤	\nleftrightarrow ^(a)	not left and right arrow
U+021AF		⤤				\downzigzagarrow	downwards zigzag arrow
U+021B0	⤠	⤡	⤢	⤣	⤤	\Lsh ^(a)	/lsh a:
U+021B1	⤠	⤡	⤢	⤣	⤤	\Rsh ^(a)	/rsh a:
U+021B2	⤠	⤡	⤢	⤣	⤤	\Ldsh	left down angled arrow
U+021B3	⤠	⤡	⤢	⤣	⤤	\Rdsh	right down angled arrow
U+021B6	⤠	⤡	⤢	⤣	⤤	\curvearrowleft ^(a)	left curved arrow
U+021B7	⤠	⤡	⤢	⤣	⤤	\curvearrowright ^(a)	right curved arrow
U+021BC	⤠	⤡	⤢	⤣	⤤	\leftharpoonup ^(p)	left harpoon-up
U+021BD	⤠	⤡	⤢	⤣	⤤	\leftharpoondown ^(p)	left harpoon-down
U+021BE	⤠	⤡	⤢	⤣	⤤	\upharpoonright ^(a)	/upharpoonright /restriction a: up harpoon-right
U+021BF	⤠	⤡	⤢	⤣	⤤	\upharpoonleft ^(a)	up harpoon-left
U+021CO	⤠	⤡	⤢	⤣	⤤	\rightharpoonup ^(p)	right harpoon-up
U+021C1	⤠	⤡	⤢	⤣	⤤	\rightharpoondown ^(p)	right harpoon-down

USV	L	S	E	P	D	Macro	Description
U+021C2	↳	↳	↳	↳	↳	\downharpoonright ^(a)	down harpoon-right
U+021C3	↲	↲	↲	↲	↲	\downharpoonleft ^(a)	down harpoon-left
U+021C4	⤳	⤳	⤳	⤳	⤳	\rightleftarrows ^(a)	right arrow over left arrow
U+021C5	⤻	⤻	⤻	⤻	⤻	\updownarrows	up arrow, down arrow
U+021C6	⤵	⤵	⤵	⤵	⤵	\leftrightarrows ^(a)	left arrow over right arrow
U+021C7	⤲	⤲	⤲	⤲	⤲	\leftleftarrows ^(a)	two left arrows
U+021C8	⤪	⤪	⤪	⤪	⤪	\upuparrows ^(a)	two up arrows
U+021C9	⤳	⤳	⤳	⤳	⤳	\rightrightarrows ^(a)	two right arrows
U+021CA	⤻	⤻	⤻	⤻	⤻	\downdownarrows ^(a)	two down arrows
U+021CB	⤷	⤷	⤷	⤷	⤷	\leftrightharpoons ^(a)	left harpoon over right
U+021CC	⤸	⤸	⤸	⤸	⤸	\rightleftharpoons ^(l)	right harpoon over left
U+021CD	⤹	⤹	⤹	⤹	⤹	\nLeftarrow ^(a)	not implied by
U+021CE	⤺	⤺	⤺	⤺	⤺	\nLeftrightarrow ^(a)	not left and right double arrows
U+021CF	⤻	⤻	⤻	⤻	⤻	\nrightarrow ^(a)	not implies
U+021D0	⤲	⤲	⤲	⤲	⤲	\Leftarrow ^(p)	is implied by
U+021D1	⤪	⤪	⤪	⤪	⤪	\Uparrow ^(p)	up double arrow
U+021D2	⤳	⤳	⤳	⤳	⤳	\Rrightarrow ^(p)	implies
U+021D3	⤻	⤻	⤻	⤻	⤻	\Downarrow ^(p)	down double arrow
U+021D4	⤷	⤷	⤷	⤷	⤷	\Leftrightarrow ^(p)	left and right double arrow
U+021D5	⤻	⤻	⤻	⤻	⤻	\Updownarrow ^(p)	up and down double arrow
U+021D6	⤻	⤻	⤻	⤻	⤻	\Nwarrow	nw pointing double arrow
U+021D7	⤻	⤻	⤻	⤻	⤻	\Nearrow	ne pointing double arrow
U+021D8	⤻	⤻	⤻	⤻	⤻	\Searrow	se pointing double arrow
U+021D9	⤻	⤻	⤻	⤻	⤻	\Swarrow	sw pointing double arrow

USV	L	S	E	P	D	Macro	Description
U+021DA	⤻	⤻	⤻	⤻	⤻	\Lleftarrow ^(a)	left triple arrow
U+021DB	⤼	⤼	⤼	⤼	⤼	\Rrightarrow ^(a)	right triple arrow
U+021DC	⤽	⤽	⤽	⤽	⤽	\leftsquigarrow	leftwards squiggle arrow
U+021DD	⤾	⤾	⤾	⤾	⤾	\rightsquigarrow ^(a)	rightwards squiggle arrow
U+021E4		⤴				\barleftarrow	leftwards arrow to bar
U+021E5		⤵				\rightarrowbar	rightwards arrow to bar
U+021F4		⤶				\circleonrightarrow	right arrow with small circle
U+021F5	⤷	⤷	⤷	⤷	⤷	\downuparrows	downwards arrow leftwards of upwards arrow
U+021F6	⤸	⤸	⤸	⤸	⤸	\rightthreearrows	three rightwards arrows
U+021F7		⤹				\nvleftarrow	leftwards arrow with vertical stroke
U+021F8		⤺				\nvrightarrow	rightwards arrow with vertical stroke
U+021F9		⤻				\nleftrightarrow	left right arrow with vertical stroke
U+021FA		⤼				\nVleftarrow	leftwards arrow with double vertical stroke
U+021FB		⤽				\nVrightarrow	rightwards arrow with double vertical stroke
U+021FC		⤾				\nVleftrightarrow	left right arrow with double vertical stroke
U+021FD		⤻				\leftarrowtriangle	leftwards open-headed arrow
U+021FE		⤺				\rightarrowtriangle	rightwards open-headed arrow
U+021FF		⤻				\leftrightarrowtriangle	left right open-headed arrow
U+02208	϶	϶	϶	϶	϶	\in ^(p)	set membership, variant
U+02209	϶	϶	϶	϶	϶	\notin ^(l)	negated set membership
U+0220A	϶	϶	϶	϶	϶	\smallin	set membership (small set membership)
U+0220B	϶	϶	϶	϶	϶	\ni ^(p)	contains, variant
U+0220C	϶	϶	϶	϶	϶	\nni	negated contains, variant
U+0220D	϶	϶	϶	϶	϶	\smallni	/ni /owns r: contains (small contains as member)

USV	L	S	E	P	D	Macro	Description
U+0221D	ꝝ	Ꝟ	ꝝ	ꝝ	Ꝟ	\propto ^(p)	is proportional to
U+02223						\mid ^(p)	/mid r:
U+02224	†	‡	†	†	‡	\nmid ^(a)	negated mid
U+02225						\parallel ^(p)	parallel
U+02226	¶	¶	¶	¶	¶	\nparallel ^(a)	not parallel
U+02236	:	:	:	:	:	\mathratio	ratio
U+02237	::	::	::	::	::	\Colon	two colons
U+02239	-:	-:	-:	-:	-:	\dashcolon	excess (-:)
U+0223A	:-:	:-:	:-:	:-:	:-:	\dotsminusdots	minus with four dots, geometric properties
U+0223B	~	~	~	~	~	\kernelcontraction	homothetic
U+0223C	~	~	~	~	~	\sim ^(p)	similar
U+0223D	~	~	~	~	~	\backsim ^(a)	reverse similar
U+02241	~	~	~	~	~	\nsim ^(a)	not similar
U+02242	~	~	~	~	~	\eqsim ^(a)	equals, similar
U+02243	~	~	~	~	~	\simeq ^(p)	similar, equals
U+02244	~	~	~	~	~	\nsimeq	not similar, equals
U+02243	~	~	~	~	~	\simeq	similar, equals (alias)
U+02244	~	~	~	~	~	\nsimeq	not similar, equals (alias)
U+02245	≈	≈	≈	≈	≈	\cong ^(l)	congruent with
U+02246	≈	≈	≈	≈	≈	\simneqq	similar, not equals [vert only for 9573 entity]
U+02247	≠	≠	≠	≠	≠	\ncong ^(a)	not congruent with
U+02248	≈	≈	≈	≈	≈	\approx ^(p)	approximate
U+02249	≈	≈	≈	≈	≈	\napprox	not approximate
U+0224A	≈	≈	≈	≈	≈	\approxeq ^(a)	approximate, equals

USV	L	S	E	P	D	Macro	Description
U+0224B	≋	≋	≋	≋	≋	\approxident	approximately identical to
U+0224C	≋	≋	≋	≋	≋	\backcong	all equal to
U+0224D	≋	≋	≋	≋	≋	\asymp^{(p)}	asymptotically equal to
U+0224E	≋	≋	≋	≋	≋	\Bumpeq^{(a)}	bumpy equals
U+0224F	≋	≋	≋	≋	≋	\bumpedq^{(a)}	bumpy equals, equals
U+02250	≐	≐	≐	≐	≐	\doteq^{(!)}	equals, single dot above
U+02251	≐	≐	≐	≐	≐	\Doteq^{(a)}	/doteqdot /doteq r: equals, even dots
U+02252	≐	≐	≐	≐	≐	\fallingdotseq^{(a)}	equals, falling dots
U+02253	≐	≐	≐	≐	≐	\risingdotseq^{(a)}	equals, rising dots
U+02254	≐	≐	≐	≐	≐	\colonreq	colon, equals
U+02255	≐	≐	≐	≐	≐	\eqcolon	equals, colon
U+02256	≐	≐	≐	≐	≐	\eqcirc^{(a)}	circle on equals sign
U+02257	≐	≐	≐	≐	≐	\circeq^{(a)}	circle, equals
U+02258	≐	≐	≐	≐	≐	\arceq	arc, equals; corresponds to
U+02259	≐	≐	≐	≐	≐	\wedgeq	corresponds to (wedge, equals)
U+0225A	∨	∨	∨	∨	∨	\veeeq	logical or, equals
U+0225B	*	*	*	*	*	\stareq	star equals
U+0225C	△	△	△	△	△	\triangleq^{(a)}	triangle, equals
U+0225D	≡ _{def}	\eqdef	equals by definition				
U+0225E	≡ _m	\measeq	measured by (m over equals)				
U+0225F	?	?	?	?	?	\questeq	equal with questionmark
U+02260	≠	≠	≠	≠	≠	\ne^{(p)}	/ne /neq r: not equal
U+02261	≡	≡	≡	≡	≡	\equiv^{(p)}	identical with
U+02262	≢	≢	≢	≢	≢	\nequiv	not identical with

USV	L	S	E	P	D	Macro	Description
U+02263	≡	≡	≡	≡	≡	\Equiv	strict equivalence (4 lines)
U+02264	≤	≤	≤	≤	≤	\leq ^(p)	/leq /le r: less-than-or-equal
U+02265	≥	≥	≥	≥	≥	\geq ^(p)	/geq /ge r: greater-than-or-equal
U+02266	⊲	⊲	⊲	⊲	⊲	\leqq ^(a)	less, double equals
U+02267	⊳	⊳	⊳	⊳	⊳	\geqq ^(a)	greater, double equals
U+02268	⊴	⊴	⊴	⊴	⊴	\lneqq ^(a)	less, not double equals
U+02269	⊵	⊵	⊵	⊵	⊵	\gneqq ^(a)	greater, not double equals
U+0226A	⊶	⊶	⊶	⊶	⊶	\ll ^(p)	much less than, type 2
U+0226B	⊷	⊷	⊷	⊷	⊷	\gg ^(p)	much greater than, type 2
U+0226C	⌚	⌚	⌚	⌚	⌚	\between ^(a)	between
U+0226D	*	*	*	*	*	\nasym	not asymptotically equal to
U+0226E	≸	≸	≸	≸	≸	\nless ^(a)	not less-than
U+0226F	≹	≹	≹	≹	≹	\ngtr ^(a)	not greater-than
U+02270	≸	≸	≸	≸	≸	\nleq ^(a)	not less-than-or-equal
U+02271	≹	≹	≹	≹	≹	\ngeq ^(a)	not greater-than-or-equal
U+02272	≷	≷	≷	≷	≷	\lessim ^(a)	less, similar
U+02273	≸	≸	≸	≸	≸	\gtrsim ^(a)	greater, similar
U+02274	≸	≸	≸	≸	≸	\nlessim	not less, similar
U+02275	≹	≹	≹	≹	≹	\ngtrsim	not greater, similar
U+02276	≷	≷	≷	≷	≷	\lessgtr ^(a)	less, greater
U+02277	≷	≷	≷	≷	≷	\gtrless ^(a)	greater, less
U+02278	≸	≸	≸	≸	≸	\nlessgtr	not less, greater
U+02279	≸	≸	≸	≸	≸	\ngtrless	not greater, less
U+0227A	≺	≺	≺	≺	≺	\prec ^(p)	precedes

USV	L	S	E	P	D	Macro	Description
U+0227B	➢	➢	➢	➢	➢	\succ ^(p)	succeeds
U+0227C	➢	➢	≣	≣	≣	\preccurlyeq ^(a)	precedes, curly equals
U+0227D	➢	➢	≣	≣	≣	\succcurlyeq ^(a)	succeeds, curly equals
U+0227E	≣	≣	≣	≣	≣	\precsim ^(a)	precedes, similar
U+0227F	≣	≣	≣	≣	≣	\succsim ^(a)	succeeds, similar
U+02280	✗	✗	✗	✗	✗	\nprec ^(a)	not precedes
U+02281	✗	✗	✗	✗	✗	\nsucc ^(a)	not succeeds
U+02282	⊏	⊏	⊏	⊏	⊏	\subset ^(p)	subset or is implied by
U+02283	⊐	⊐	⊐	⊐	⊐	\supset ^(p)	superset or implies
U+02284	⊓	⊓	⊓	⊓	⊓	\nsubset	not subset, variant [slash negation]
U+02285	⊔	⊔	⊔	⊔	⊔	\nsupset	not superset, variant [slash negation]
U+02286	⊑	⊑	⊑	⊑	⊑	\subsetneq ^(p)	subset, equals
U+02287	⊒	⊒	⊒	⊒	⊒	\supsetneq ^(p)	superset, equals
U+02288	⊓	⊓	⊓	⊓	⊓	\nsubsetneq ^(a)	not subset, equals
U+02289	⊔	⊔	⊔	⊔	⊔	\nsupsetneq ^(a)	not superset, equals
U+0228A	⊏	⊏	⊏	⊏	⊏	\subsetneqq ^(a)	subset, not equals
U+0228B	⊐	⊐	⊐	⊐	⊐	\supsetneqq ^(a)	superset, not equals
U+0228F	⊑	⊑	⊑	⊑	⊑	\sqsubset	square subset
U+02290	⊒	⊒	⊒	⊒	⊒	\sqsupset	square superset
U+02291	⊑	⊑	⊑	⊑	⊑	\sqsubsetneq ^(p)	square subset, equals
U+02292	⊒	⊒	⊒	⊒	⊒	\sqsupsetneq ^(p)	square superset, equals
U+022A2	⊠	⊠	⊠	⊠	⊠	\vdash ^(p)	vertical, dash
U+022A3	⊠	⊠	⊠	⊠	⊠	\dashv ^(p)	dash, vertical
U+022A6	⊠	⊠	⊠	⊠	⊠	\assert	assertion (vertical, short dash)

USV	L	S	E	P	D	Macro	Description
U+022A7	Ƒ	Ƒ	Ƒ	Ƒ	Ƒ	\models ^(p)	models (vertical, short double dash)
U+022A8	Ƒ	Ƒ	Ƒ	Ƒ	Ƒ	\vDash ^(a)	vertical, double dash
U+022A9	ǁ	ǁ	ǁ	ǁ	ǁ	\Vdash ^(a)	double vertical, dash
U+022AA	-	-	-	-	-	\Vvdash ^(a)	triple vertical, dash
U+022AB	-	-	-	-	-	\VDash	double vert, double dash
U+022AC	✗	✗	✗	✗	✗	\nvDash ^(a)	not vertical, dash
U+022AD	✗	✗	✗	✗	✗	\nvDash ^(a)	not vertical, double dash
U+022AE	✗	✗	✗	✗	✗	\nVdash ^(a)	not double vertical, dash
U+022AF	✗	✗	✗	✗	✗	\nVDash ^(a)	not double vert, double dash
U+022B0	≾					\prurel	element precedes under relation
U+022B1	≿					\sucrel	succeeds under relation
U+022B2	◁	◁	◁	◁	◁	\vartriangleleft ^(a)	left triangle, open, variant
U+022B3	▷	▷	▷	▷	▷	\vartriangleright ^(a)	right triangle, open, variant
U+022B4	⊲	⊲	⊲	⊲	⊲	\trianglelefteq ^(a)	left triangle, equals
U+022B5	⊳	⊳	⊳	⊳	⊳	\trianglerighteq ^(a)	right triangle, equals
U+022B6	○•	○•	○•	○•	○•	\origof	original of
U+022B7	•○	•○	•○	•○	•○	\imageof	image of
U+022B8	—○	—○	—○	—○	—○	\multimap ^(a)	/multimap a:
U+022C8	☒	☒	☒	☒	☒	\bowtie ^(p)	bowtie
U+022CD	〽	〽	〽	〽	〽	\backsimeq ^(a)	reverse similar, equals
U+022D0	⊆	⊆	⊆	⊆	⊆	\Subset ^(a)	double subset
U+022D1	⊇	⊇	⊇	⊇	⊇	\Supset ^(a)	double superset
U+022D4	Ⓜ	Ⓜ				\pitchfork ^(a)	pitchfork
U+022D5	#	#	#	#	#	\equalparallel	parallel, equal; equal or parallel

USV	L	S	E	P	D	Macro	Description
U+022D6	⟨	⟨	⟨	⟨	⟨	\lessdot ^(a)	less than, with dot
U+022D7	⟩	⟩	⟩	⟩	⟩	\gtrdot ^(a)	greater than, with dot
U+022D8	⟨⟨⟨	⟨⟨⟨	⟨⟨⟨	⟨⟨⟨	⟨⟨⟨	\lll ^(a)	/ll /lll r: triple less-than
U+022D9	⟩⟩⟩	⟩⟩⟩	⟩⟩⟩	⟩⟩⟩	⟩⟩⟩	\ggg ^(a)	/ggg /gg /gggr r: triple greater-than
U+022DA	∨∨∨	∨∨∨	∨∨∨	∨∨∨	∨∨∨	\lesseqtr ^(a)	less, equals, greater
U+022DB	∨∨∨	∨∨∨	∨∨∨	∨∨∨	∨∨∨	\gtreqless ^(a)	greater, equals, less
U+022DC	∨∨	∨∨	∨∨	∨∨	∨∨	\eqless	equal-or-less
U+022DD	∨∨	∨∨	∨∨	∨∨	∨∨	\eqgtr	equal-or-greater
U+022DE	≈≈≈	≈≈≈	≈≈≈	≈≈≈	≈≈≈	\curlyeqprec ^(a)	curly equals, precedes
U+022DF	≈≈≈	≈≈≈	≈≈≈	≈≈≈	≈≈≈	\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	⊈⊈⊈	⊈⊈⊈	⊈⊈⊈	⊈⊈⊈	⊈⊈⊈	\sqsubsetneq	square subset, not equals
U+022E5	⊈⊈⊈	⊈⊈⊈	⊈⊈⊈	⊈⊈⊈	⊈⊈⊈	\sqsupsetneq	square superset, not equals
U+022E6	≲≲≲	≲≲≲	≲≲≲	≲≲≲	≲≲≲	\lnsim ^(a)	less, not similar
U+022E7	≲≲≲	≲≲≲	≲≲≲	≲≲≲	≲≲≲	\gnsim ^(a)	greater, not similar
U+022E8	≲≲≲	≲≲≲	≲≲≲	≲≲≲	≲≲≲	\precnsim ^(a)	precedes, not similar
U+022E9	≲≲≲	≲≲≲	≲≲≲	≲≲≲	≲≲≲	\succcnsim ^(a)	succeeds, not similar
U+022EA	⋪⋪⋪	⋪⋪⋪	⋪⋪⋪	⋪⋪⋪	⋪⋪⋪	\nvartriangleleft	not left triangle
U+022EB	⋪⋪⋪	⋪⋪⋪	⋪⋪⋪	⋪⋪⋪	⋪⋪⋪	\nvartriangleright	not right triangle
U+022EC	⋪⋪⋪	⋪⋪⋪	⋪⋪⋪	⋪⋪⋪	⋪⋪⋪	\ntrianglelefteq	not left triangle, equals
U+022ED	⋪⋪⋪	⋪⋪⋪	⋪⋪⋪	⋪⋪⋪	⋪⋪⋪	\ntrianglerighteq	not right triangle, equals

USV	L	S	E	P	D	Macro	Description
U+027C9		▷/				\suphsol	superset preceding solidus
U+027D2		Ѱ				\upin	element of opening upwards
U+027D3		└·				\pullback	lower right corner with dot
U+027D4		┌·				\pushout	upper left corner with dot
U+027DA	≠≠	≠≠	≠≠	≠≠	≠≠	\DashVDash	left and right double turnstile
U+027DB	≠≠	≠≠	≠≠	≠≠	≠≠	\dashVdash	left and right tack
U+027DC	○○	○○	○○	○○	○○	\multimapinv	left multimap
U+027DD	──	──	──	──	──	\vlongdash	long left tack
U+027DE	──	──	──	──	──	\longdashv	long right tack
U+027DF	○					\cirbot	up tack with circle above
U+027F0	↑↑↑↑					\UUparrow	upwards quadruple arrow
U+027F1	↓↓↓↓					\DDownarrow	downwards quadruple arrow
U+027F2	○○○○					\acwgapcirclearrow	anticlockwise gapped circle arrow
U+027F3	○○○○					\cwgapcirclearrow	clockwise gapped circle arrow
U+027F4	⊕⊕⊕⊕	⊕⊕⊕⊕	⊕⊕⊕⊕	⊕⊕⊕⊕	⊕⊕⊕⊕	\rightarrowarrowonoplus	right arrow with circled plus
U+027F5	←←←←	←←←←	←←←←	←←←←	←←←←	\longleftarrow^{(p)}	long leftwards arrow
U+027F6	→→→→	→→→→	→→→→	→→→→	→→→→	\longrightarrow^{(p)}	long rightwards arrow
U+027F7	↔↔↔↔	↔↔↔↔	↔↔↔↔	↔↔↔↔	↔↔↔↔	\longleftrightarrow^{(p)}	long left right arrow
U+027F8	↔↔↔↔	↔↔↔↔	↔↔↔↔	↔↔↔↔	↔↔↔↔	\Longleftarrow^{(p)}	long leftwards double arrow
U+027F9	→→→→	→→→→	→→→→	→→→→	→→→→	\Longrightarrow^{(p)}	long rightwards double arrow
U+027FA	↔↔↔↔	↔↔↔↔	↔↔↔↔	↔↔↔↔	↔↔↔↔	\Longleftrightarrow^{(p)}	long left right double arrow
U+027FB	←←←←	←←←←	←←←←	←←←←	←←←←	\longmapsfrom	long leftwards arrow from bar
U+027FC	→→→→	→→→→	→→→→	→→→→	→→→→	\longmapsto^{(p)}	long rightwards arrow from bar
U+027FD	↔↔↔↔	↔↔↔↔	↔↔↔↔	↔↔↔↔	↔↔↔↔	\Longmapsfrom	long leftwards double arrow from bar

USV	L	S	E	P	D	Macro	Description
U+027FE	➡	➡	➡	➡	➡	\Longmapsto	long rightwards double arrow from bar
U+027FF	↝	↝	↝	↝	↝	\longrightsquigarrow	long rightwards squiggle arrow
U+02900	⤠					\nvtwoheadrightarrow	rightwards two-headed arrow with vertical stroke
U+02901		⤠				\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+02904		⤠				\nvLeftrightarrow	left right double arrow with vertical stroke
U+02905		⤠				\twoheadmapsto	rightwards two-headed arrow from bar
U+02906	⤠	⤠	⤠	⤠	⤠	\Mapsfrom	leftwards double arrow from bar
U+02907	⤠	⤠	⤠	⤠	⤠	\Mapsto	rightwards double arrow from bar
U+02908	⤣					\downarrowbarred	downwards arrow with horizontal stroke
U+02909	⤤					\uparrowbarred	upwards arrow with horizontal stroke
U+0290A	⤥					\Uparrow	upwards triple arrow
U+0290B	⤦					\Downarrow	downwards triple arrow
U+0290C	⤧					\leftbkarrow	leftwards double dash arrow
U+0290D	⤨					\rightbkarrow	rightwards double dash arrow
U+0290E	⤩					\leftdbkarrow	leftwards triple dash arrow
U+0290F	⤪					\dbkarrow	rightwards triple dash arrow
U+02910	⤫					\drbkarrow	rightwards two-headed triple dash arrow
U+02911	⤬					\rightdotarrow	rightwards arrow with dotted stem
U+02912	⤭					\baruparrow	upwards arrow to bar
U+02913	⤮					\downarrowbar	downwards arrow to bar
U+02914	⤠					\nvrightarrowtail	rightwards arrow with tail with vertical stroke

USV	L	S	E	P	D	Macro	Description
U+02915		⤵				\nVrightarrowtail	rightwards arrow with tail with double vertical stroke
U+02916		⤶				\twoheadrightarrowtail	rightwards two-headed arrow with tail
U+02917		⤷				\nvtwoheadrightarrowtail	rightwards two-headed arrow with tail with vertical stroke
U+02918		⤸				\nVtwoheadrightarrowtail	rightwards two-headed arrow with tail with double vertical stroke
U+02919		⤹				\lefttail	leftwards arrow-tail
U+0291A		⤺				\righttail	rightwards arrow-tail
U+0291B		⤻				\leftdbltail	leftwards double arrow-tail
U+0291C		⤼				\rightdbltail	rightwards double arrow-tail
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
U+02920		⤩				\barrightarrowdiamond	rightwards arrow from bar to black diamond
U+02921		⤪				\nwsearrow	north west and south east arrow
U+02922		⤫				\nesarrow	north east and south west arrow
U+02923		⤬				\hknarrow	north west arrow with hook
U+02924		⤭				\hknearrow	north east arrow with hook
U+02925		⤮				\hksearrow	south east arrow with hook
U+02926		⤯				\hksarrow	south west arrow with hook
U+02927		⤰				\tona	north west arrow and north east arrow
U+02928		⤱				\toea	north east arrow and south east arrow
U+02929		⤲				\tosa	south east arrow and south west arrow
U+0292A		⤳				\towa	south west arrow and north west arrow
U+02933		⤴	⤵			\rightcurvedarrow	wave arrow pointing directly right

USV	L	S	E	P	D	Macro	Description
u+02936		↘	↙			\leftdowncurvedarrow	arrow pointing downwards then curving leftwards
u+02937		↘	↙			\rightdowncurvedarrow	arrow pointing downwards then curving rightwards
u+02938		↗				\cwrightarcarrow	right-side arc clockwise arrow
u+02939		↙				\acwleftarcarrow	left-side arc anticlockwise arrow
u+0293A		↘				\acwoverarcarrow	top arc anticlockwise arrow
u+0293B		↗				\acwunderarcarrow	bottom arc anticlockwise arrow
u+0293C		↙				\curvearrowrightminus	top arc clockwise arrow with minus
u+0293D		↖				\curvearrowleftplus	top arc anticlockwise arrow with plus
u+0293E		↗				\cwundercurvearrow	lower right semicircular clockwise arrow
u+0293F		↙				\ccwundercurvearrow	lower left semicircular anticlockwise arrow
u+02940		↪				\acwcirclearrow	anticlockwise closed circle arrow
u+02941		↪				\cwcirclearrow	clockwise closed circle arrow
u+02942		↛				\rightarrowshortleftarrow	rightwards arrow above short leftwards arrow
u+02943		↛				\leftarrowshortrightarrow	leftwards arrow above short rightwards arrow
u+02944		↛				\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+02948		↝				\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+0294B		↷				\leftrightharpoondownup	left barb down right barb up harpoon
u+0294C		↓				\updownharpoonrightleft	up barb right down barb left harpoon

USV	L	S	E	P	D	Macro	Description
U+0294D		↳				\updownharpoonleftright	up barb left down barb right harpoon
U+0294E		↖				\leftrightharpoonupup	left barb up right barb up harpoon
U+0294F		↲				\updownharpoonrightright	up barb right down barb right harpoon
U+02950		⤷				\leftrightharpoondowndown	left barb down right barb down harpoon
U+02951		⤴				\updownharpoonleftleft	up barb left down barb left harpoon
U+02952		⤵				\barleftharpoonup	leftwards harpoon with barb up to bar
U+02953		⤶				\rightharpoonupbar	rightwards harpoon with barb up to bar
U+02954		⤸				\barupharpoonright	upwards harpoon with barb right to bar
U+02955		⤹				\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		⤽				\barupharpoonleft	upwards harpoon with barb left to bar
U+02959		⤾				\downharpoonleftbar	downwards harpoon with barb left to bar
U+0295A		⤿				\leftharpoonupbar	leftwards harpoon with barb up from bar
U+0295B		⤩				\barrightharpoonup	rightwards harpoon with barb up from bar
U+0295C		⤪				\upharpoonrightbar	upwards harpoon with barb right from bar
U+0295D		⤫				\bardownharpoonright	downwards harpoon with barb right from bar
U+0295E		⤬				\leftharpoondownbar	leftwards harpoon with barb down from bar
U+0295F		⤭				\barrightharpoondown	rightwards harpoon with barb down from bar
U+02960		⤮				\upharpoonleftbar	upwards harpoon with barb left from bar
U+02961		⤯				\bardownharpoonleft	downwards harpoon with barb left from bar
U+02962		⤰				\leftharpoonsupdown	leftwards harpoon with barb up above left-wards harpoon with barb down
U+02963		⤱				\upharpoonsleftright	upwards harpoon with barb left beside up-wards harpoon with barb right

USV	L	S	E	P	D	Macro	Description
u+02964		⇒				\rightharpoonsupdown	rightwards harpoon with barb up above rightwards harpoon with barb down
u+02965		⇓				\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+02967		⤼				\leftrightharpoonsdown	leftwards harpoon with barb down above rightwards harpoon with barb down
u+02968		⤻				\rightleftharpoonsup	rightwards harpoon with barb up above leftwards harpoon with barb up
u+02969		⤼				\rightleftharpoonsdown	rightwards harpoon with barb down above leftwards harpoon with barb down
u+0296A		⤻				\leftharpoonupdash	leftwards harpoon with barb up above long dash
u+0296B		⤼				\dashleftharpoondown	leftwards harpoon with barb down below long dash
u+0296C		⤻				\rightharpoonupdash	rightwards harpoon with barb up above long dash
u+0296D		⤼				\dashrightharpoondown	rightwards harpoon with barb down below long dash
u+0296E		⤻				\updownharpoonsleftright	upwards harpoon with barb left beside downwards harpoon with barb right
u+0296F		⤻				\downupharpoonsleftright	downwards harpoon with barb left beside upwards harpoon with barb right
u+02970		⤽				\rightimply	right double arrow with rounded head
u+02971		⇒				\equalrightarrow	equals sign above rightwards arrow
u+02972		⤾				\similarrightarrow	tilde operator above rightwards arrow
u+02973		⤻				\leftarrowsimilar	leftwards arrow above tilde operator
u+02974		⤾				\rightarrowsimilar	rightwards arrow above tilde operator
u+02975		⤾				\rightarrowapprox	rightwards arrow above almost equal to
u+02976		⤻				\ltlarr	less-than above leftwards arrow
u+02977		⤻				\leftarrowless	leftwards arrow through less-than

USV	L	S	E	P	D	Macro	Description
U+02A7E	≥	≥	≥	≥	≥	\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		≤				\lesdotor	less-than or slanted equal to with dot above right
U+02A84		≥				\gesdotol	greater-than or slanted equal to with dot above left
U+02A85	≈	≈	≈	≈	≈	\lessapprox ^(a)	less-than or approximate
U+02A86	≈	≈	≈	≈	≈	\gtrapprox ^(a)	greater-than or approximate
U+02A87	≠	≠	≠	≠	≠	\lneq ^(a)	less-than and single-line not equal to
U+02A88	≠	≠	≠	≠	≠	\gneq ^(a)	greater-than and single-line not equal to
U+02A89	≠	≠	≠	≠	≠	\lnapprox ^(a)	less-than and not approximate
U+02A8A	≠	≠	≠	≠	≠	\gnapprox ^(a)	greater-than and not approximate
U+02A8B	≤	≤	≤	≤	≤	\lesseqgtr ^(a)	less-than above double-line equal above greater-than
U+02A8C	≥	≥	≥	≥	≥	\gtreqless ^(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		≤				\lsimg	less-than above similar above greater-than
U+02A90		≥				\gsiml	greater-than above similar above less-than
U+02A91		≤				\lgE	less-than above greater-than above double-line equal
U+02A92		≥				\gle	greater-than above less-than above double-line equal

USV	L	S	E	P	D	Macro	Description
U+02A93						\lesges	less-than above slanted equal above greater-than above slanted equal
U+02A94						\gesles	greater-than above slanted equal above less-than above slanted equal
U+02A95						\eqslantless ^(a)	slanted equal to or less-than
U+02A96						\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						\eqqslantless	double-line slanted equal to or less-than
U+02A9C						\eqqslantgtr	double-line slanted equal to or greater-than
U+02A9D						\simless	similar or less-than
U+02A9E						\simgtr	similar or greater-than
U+02A9F						\simlE	similar above less-than above equals sign
U+02AA0						\simgE	similar above greater-than above equals sign
U+02AA1						\Lt	double nested less-than
U+02AA2						\Gt	double nested greater-than
U+02AA3						\partialialmeetcontraction	double less-than with underbar
U+02AA4						\glj	greater-than overlapping less-than
U+02AA5						\gla	greater-than beside less-than
U+02AA6						\ltcc	less-than closed by curve
U+02AA7						\gtcc	greater-than closed by curve
U+02AA8						\lescc	less-than closed by curve above slanted equal
U+02AA9						\gescc	greater-than closed by curve above slanted equal

USV	L	S	E	P	D	Macro	Description
U+02AAA		«				\smt	smaller than
U+02AAB		»				\lat	larger than
U+02AAC		«/				\smte	smaller than or equal to
U+02AAD		»/				\late	larger than or equal to
U+02AAE		«=				\bumppeqq	equals sign with bumpy above
U+02AAF	↖	↖	↖	↖	↖	\preceq ^(p)	precedes above single-line equals sign
U+02AB0	↖	↖	↖	↖	↖	\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	↖↖	↖↖				\precneqq ^(a)	precedes above not equal to
U+02AB6	↖↖	↖↖				\succneqq ^(a)	succeeds above not equal to
U+02AB7	≈≈	≈≈				\precapprox ^(a)	precedes above almost equal to
U+02AB8	≈≈	≈≈				\succapprox ^(a)	succeeds above almost equal to
U+02AB9	≈≈	≈≈				\precnapprox ^(a)	precedes above not almost equal to
U+02ABA	≈≈	≈≈				\succnapprox ^(a)	succeeds above not almost equal to
U+02ABB	««					\Prec	double precedes
U+02ABC	»»					\Succ	double succeeds
U+02ABD	⊏					\subsetdot	subset with dot
U+02ABE	⊐					\supsetdot	superset with dot
U+02ABF	⊑					\subsetplus	subset with plus sign below
U+02AC0	⊒					\supsetplus	superset with plus sign below
U+02AC1	⊓					\submult	subset with multiplication sign below

USV	L	S	E	P	D	Macro	Description
U+02AC2		ꝲ				\supmult	superset with multiplication sign below
U+02AC3		ꝴ				\subedot	subset of or equal to with dot above
U+02AC4		ꝵ				\supedot	superset of or equal to with dot above
U+02AC5		ꝶ	ꝷ			\subsetteqq ^(a)	subset of above equals sign
U+02AC6		ꝸ	Ꝺ			\supseteqq ^(a)	superset of above equals sign
U+02AC7		ꝺ				\subsim	subset of above tilde operator
U+02AC8		Ꝼ				\supsim	superset of above tilde operator
U+02AC9		ꝼ				\subsetapprox	subset of above almost equal to
U+02ACA		Ᵹ				\supsetapprox	superset of above almost equal to
U+02ACB		Ꝿ	ꝿ			\subsetneqq ^(a)	subset of above not equal to
U+02ACC		ꝿ	ꝿ			\supsetneqq ^(a)	superset of above not equal to
U+02ACD		Ꝼ				\lsqhook	square left open box operator
U+02ACE		ꝼ				\rsqhook	square right open box operator
U+02ACF		Ᵹ				\csub	closed subset
U+02AD0		Ꝿ				\csup	closed superset
U+02AD1		ꝿ				\csube	closed subset or equal to
U+02AD2		ꝿ				\csupe	closed superset or equal to
U+02AD3		Ꝼ				\subsup	subset above superset
U+02AD4		ꝼ				\supsub	superset above subset
U+02AD5		Ᵹ				\subsub	subset above subset
U+02AD6		ꝿ				\supsup	superset above superset
U+02AD7		ꝿ				\suphsub	superset beside subset
U+02AD8		ꝿ				\supdsub	superset beside and joined by dash with subset
U+02AD9		ꝿ				\forkv	element of opening downwards

USV	L	S	E	P	D	Macro	Description
U+02ADA		KANJI				\topfork	pitchfork with tee top
U+02ADB		KANJI				\mlcp	transversal intersection
U+02ADC		KANJI				\forks	forking
U+02ADD		KANJI				\forksnot	nonforking
U+02ADE		KANJI				\shortlefttack	short left tack
U+02ADF		KANJI				\shortdowntack	short down tack
U+02AE0		KANJI				\shortuptack	short up tack
U+02AE2		KANJI				\vDash	vertical bar triple right turnstile
U+02AE3		KANJI				\dashV	double vertical bar left turnstile
U+02AE4		KANJI				\Dashv	vertical bar double left turnstile
U+02AE5		KANJI				\DashV	double vertical bar double left turnstile
U+02AE6		KANJI				\varDash	long dash from left member of double vertical
U+02AE7		KANJI				\Barv	short down tack with overbar
U+02AE8		KANJI				\vBar	short up tack with underbar
U+02AE9		KANJI				\vBarv	short up tack above short down tack
U+02AEA		KANJI				\barV	double down tack
U+02AEB		KANJI				\Vbar	double up tack
U+02AEC		KANJI				\Not	double stroke not sign
U+02AED		KANJI				\bNot	reversed double stroke not sign
U+02AEE		KANJI				\revnmid	does not divide with reversed negation slash
U+02AEF		KANJI				\cirmid	vertical line with circle above
U+02AFO		KANJI				\midcir	vertical line with circle below
U+02AF2		KANJI				\nhpar	parallel with horizontal stroke
U+02AF3		KANJI				\parsim	parallel with tilde operator

USV	L	S	E	P	D	Macro	Description
U+02AF7						\lllnest	stacked very much less-than
U+02AF8						\gggnest	stacked very much greater-than
U+02AF9						\leqqslant	double-line slanted less-than or equal to
U+02AFA						\geqqslant	double-line slanted greater-than or equal to
U+02B30						\circleonleftarrow	left arrow with small circle
U+02B31						\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						\nVtwoheadleftarrow	leftwards two-headed arrow with double vertical stroke
U+02B36						\twoheadmapsfrom	leftwards two-headed arrow from bar
U+02B37						\twoheadleftdbkarrow	leftwards two-headed triple-dash arrow
U+02B38						\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+02B3C						\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						\leftarrowx	leftwards arrow through x
U+02B3F						\leftcurvedarrow	wave arrow pointing directly left
U+02B40						\equalleftarrow	equals sign above leftwards arrow
U+02B41						\bsimilarsimleftarrow	reverse tilde operator above leftwards arrow
U+02B42						\leftarrowbackapprox	leftwards arrow above reverse almost equal to

USV	L	S	E	P	D	Macro	Description
U+02B43		⤵				\rightarrowarrowgtr	rightwards arrow through greater-than
U+02B44		⤶				\rightarrowarrowsupset	rightwards arrow through subset
U+02B45		⤷				\LLeftarrow	leftwards quadruple arrow
U+02B46		⤸				\RRightarrow	rightwards quadruple arrow
U+02B47		⤹				\bsimilarrightarrow	reverse tilde operator above rightwards arrow
U+02B48		⤺				\rightarrowarrowbackapprox	rightwards arrow above reverse almost equal to
U+02B49		⤻				\similarleftarrow	tilde operator above leftwards arrow
U+02B4A		⤼				\leftarrowapprox	leftwards arrow above almost equal to
U+02B4B		⤽				\leftarrowbsimilar	leftwards arrow above reverse tilde operator
U+02B4C		⤾				\rightarrowarrowbsimilar	rightwards arrow above reverse tilde operator

15 Alphabetical symbols, \mathalpha

15.1 Normal weight

15.1.1 Upright Greek, uppercase

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

USV	L	S	E	P	D	Macro	Description
u+003a7	χ	χ	χ	χ	χ	\mupChi	capital chi, greek
u+003a8	Ψ	Ψ	Ψ	Ψ	Ψ	\mupPsi	capital psi, greek
u+003a9	Ω	Ω	Ω	Ω	Ω	\mupOmega	capital omega, greek

15.1.2 Upright Greek, lowercase

USV	L	S	E	P	D	Macro	Description
u+003b1	α	α	α	α	α	\mupalpha	small alpha, greek
u+003b2	β	β	β	β	β	\mupbeta	small beta, greek
u+003b3	γ	γ	γ	γ	γ	\mupgamma	small gamma, greek
u+003b4	δ	δ	δ	δ	δ	\mupdelta	small delta, greek
u+003b5	ε	ε	ε	ε	ε	\mupvarepsilon	rounded small varepsilon, greek
u+003b6	ζ	ζ	ζ	ζ	ζ	\mupzeta	small zeta, greek
u+003b7	η	η	η	η	η	\mupeta	small eta, greek
u+003b8	θ	θ	θ	θ	θ	\muptheta	straight theta, small theta, greek
u+003b9	ι	ι	ι	ι	ι	\mupiota	small iota, greek
u+003ba	κ	κ	κ	κ	κ	\mupkappa	small kappa, greek
u+003bb	λ	λ	λ	λ	λ	\muplambda	small lambda, greek
u+003bc	μ	μ	μ	μ	μ	\mupmu	small mu, greek
u+003bd	ν	ν	ν	ν	ν	\mupnu	small nu, greek
u+003be	ξ	ξ	ξ	ξ	ξ	\mupxi	small xi, greek
u+003bf	ο	ο	ο	ο	ο	\mupomicron	small omicron, greek
u+003co	π	π	π	π	Π	\muppi	small pi, greek
u+003c1	ρ	ρ	ρ	ρ	ρ	\muprho	small rho, greek
u+003c2	ς	ς	ς	ς	ς	\mupvarsigma	terminal sigma, greek

usv	L	S	E	P	D	Macro	Description
u+003c3	σ	σ	σ	σ	σ	\mupsigma	small sigma, greek
u+003c4	τ	τ	τ	τ	τ	\muptau	small tau, greek
u+003c5	υ	υ	υ	υ	υ	\mupupsilon	small upsilon, greek
u+003c6	φ	φ	φ	φ	φ	\mupvarphi	curly or open small phi, greek
u+003c7	χ	χ	χ	χ	χ	\mupchi	small chi, greek
u+003c8	ψ	ψ	ψ	ψ	ψ	\muppsi	small psi, greek
u+003c9	ω	ω	ω	ω	ω	\mupomega	small omega, greek
u+003d1	ϑ	ϑ	ϑ	ϑ	ϑ	\mupvartheta	/vartheta - curly or open theta
u+003d5	ϕ	ϕ	ϕ	ϕ	ϕ	\mupphi	/straightphi - small phi, greek
u+003d6	ϖ	ϖ	ϖ	ϖ	ϖ	\mupvarpi	rounded small pi (pomega), greek
u+003dc	F					\upDigamma	capital digamma
u+003dd	ƒ	ƒ				\updigamma	old greek small letter digamma
u+003f0	ϰ	ϰ	ϰ	ϰ	ϰ	\mupvarkappa	rounded small kappa, greek
u+003f1	ϱ	ϱ	ϱ	ϱ	ϱ	\mupvarrho	rounded small rho, greek
u+003f4	Θ	Θ	Θ	Θ	Θ	\mupvarTheta	greek capital theta symbol
u+003f5	϶	϶	϶	϶	϶	\muppsilon	greek lunate varepsilon symbol

15.1.3 Italic, Latin, uppercase

usv	L	S	E	P	D	Macro	Description
u+1d434	A	A	A	A	A	\mitA	mathematical italic capital a
u+1d435	B	B	B	B	B	\mitB	mathematical italic capital b
u+1d436	C	C	C	C	C	\mitC	mathematical italic capital c
u+1d437	D	D	D	D	D	\mitD	mathematical italic capital d
u+1d438	E	E	E	E	E	\mitE	mathematical italic capital e

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

15.1.4 Italic, Latin, lowercase

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

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

15.1.5 Italic Greek, uppercase

USV	L	S	E	P	D	Macro	Description
U+1D6E2	<i>A</i>	<i>A</i>	<i>A</i>	<i>A</i>	<i>A</i>	\mitAlpha	mathematical italic capital alpha
U+1D6E3	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	\mitBeta	mathematical italic capital beta
U+1D6E4	<i>Γ</i>	<i>Γ</i>	<i>Γ</i>	<i>Γ</i>	<i>Γ</i>	\mitGamma	mathematical italic capital gamma
U+1D6E5	<i>Δ</i>	<i>Δ</i>	<i>Δ</i>	<i>Δ</i>	<i>Δ</i>	\mitDelta	mathematical italic capital delta
U+1D6E6	<i>Ε</i>	<i>Ε</i>	<i>Ε</i>	<i>Ε</i>	<i>Ε</i>	\mitEpsilon	mathematical italic capital epsilon
U+1D6E7	<i>Ζ</i>	<i>Ζ</i>	<i>Ζ</i>	<i>Ζ</i>	<i>Ζ</i>	\mitZeta	mathematical italic capital zeta
U+1D6E8	<i>Η</i>	<i>Η</i>	<i>Η</i>	<i>Η</i>	<i>Η</i>	\mitEta	mathematical italic capital eta
U+1D6E9	<i>Θ</i>	<i>Θ</i>	<i>Θ</i>	<i>Θ</i>	<i>Θ</i>	\mitTheta	mathematical italic capital theta
U+1D6EA	<i>Ι</i>	<i>I</i>	<i>I</i>	<i>I</i>	<i>I</i>	\mitIota	mathematical italic capital iota
U+1D6EB	<i>Κ</i>	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>	\mitKappa	mathematical italic capital kappa
U+1D6EC	<i>Λ</i>	<i>Λ</i>	<i>Λ</i>	<i>Λ</i>	<i>Λ</i>	\mitLambda	mathematical italic capital lambda
U+1D6ED	<i>Μ</i>	<i>M</i>	<i>M</i>	<i>M</i>	<i>M</i>	\mitMu	mathematical italic capital mu
U+1D6EE	<i>Ν</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	\mitNu	mathematical italic capital nu
U+1D6EF	<i>Ξ</i>	<i>Ξ</i>	<i>Ξ</i>	<i>Ξ</i>	<i>Ξ</i>	\mitXi	mathematical italic capital xi
U+1D6F0	<i>Ο</i>	<i>O</i>	<i>O</i>	<i>O</i>	<i>O</i>	\mitOmicron	mathematical italic capital omicron
U+1D6F1	<i>Π</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	\mitPi	mathematical italic capital pi
U+1D6F2	<i>Ρ</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	\mitRho	mathematical italic capital rho
U+1D6F3	<i>Θ</i>	<i>Θ</i>	<i>Θ</i>	<i>Θ</i>	<i>Θ</i>	\mitvarTheta	mathematical italic capital theta symbol
U+1D6F4	<i>Σ</i>	<i>Σ</i>	<i>Σ</i>	<i>Σ</i>	<i>Σ</i>	\mitSigma	mathematical italic capital sigma
U+1D6F5	<i>Τ</i>	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>	\mitTau	mathematical italic capital tau

USV	L	S	E	P	D	Macro	Description
U+1D6F6	Ɣ	Ɣ	Ɣ	Ɣ	Ɣ	\mitUpsilon	mathematical italic capital upsilon
U+1D6F7	Ƥ	Ƥ	Ƥ	Ƥ	Ƥ	\mitPhi	mathematical italic capital phi
U+1D6F8	>X̄	X̄	X̄	X̄	X̄	\mitChi	mathematical italic capital chi
U+1D6F9	Ѱ	Ѱ	Ѱ	Ѱ	Ѱ	\mitPsi	mathematical italic capital psi
U+1D6FA	Ѡ	Ѡ	Ѡ	Ѡ	Ѡ	\mitOmega	mathematical italic capital omega

15.1.6 Italic Greek, lowercase

USV	L	S	E	P	D	Macro	Description
U+1D6FC	ᾱ	ᾱ	ᾱ	ᾱ	ᾱ	\mitalpha	mathematical italic small alpha
U+1D6FD	β̄	β̄	β̄	β̄	β̄	\mitbeta	mathematical italic small beta
U+1D6FE	γ̄	γ̄	γ̄	γ̄	γ̄	\mitgamma	mathematical italic small gamma
U+1D6FF	δ̄	δ̄	δ̄	δ̄	δ̄	\mitdelta	mathematical italic small delta
U+1D700	ε̄	ε̄	ε̄	ε̄	ε̄	\mitvarepsilon	mathematical italic small varepsilon
U+1D701	ζ̄	ζ̄	ζ̄	ζ̄	ζ̄	\mitzeta	mathematical italic small zeta
U+1D702	η̄	η̄	η̄	η̄	η̄	\miteta	mathematical italic small eta
U+1D703	θ̄	θ̄	θ̄	θ̄	θ̄	\mittheta	mathematical italic small theta
U+1D704	ῑ	ῑ	ῑ	ῑ	ῑ	\mitiota	mathematical italic small iota
U+1D705	κ̄	κ̄	κ̄	κ̄	κ̄	\mitkappa	mathematical italic small kappa
U+1D706	λ̄	λ̄	λ̄	λ̄	λ̄	\mitlambda	mathematical italic small lambda
U+1D707	μ̄	μ̄	μ̄	μ̄	μ̄	\mitmu	mathematical italic small mu
U+1D708	ν̄	ν̄	ν̄	ν̄	ν̄	\mitnu	mathematical italic small nu
U+1D709	ξ̄	ξ̄	ξ̄	ξ̄	ξ̄	\mitxi	mathematical italic small xi
U+1D70A	օ̄	օ̄	օ̄	օ̄	օ̄	\mitomicron	mathematical italic small omicron
U+1D70B	π̄	π̄	π̄	π̄	π̄	\mitpi	mathematical italic small pi

USV	L	S	E	P	D	Macro	Description
U+1D70C	ρ	ρ	ρ	ρ	ρ	\mitrho	mathematical italic small rho
U+1D70D	ς	ς	ς	ς	ς	\mitvarsigma	mathematical italic small final sigma
U+1D70E	σ	σ	σ	σ	σ	\mitsigma	mathematical italic small sigma
U+1D70F	τ	τ	τ	τ	τ	\mittau	mathematical italic small tau
U+1D710	υ	υ	υ	υ	υ	\mitupsilon	mathematical italic small upsilon
U+1D711	φ	φ	φ	φ	φ	\mitvarphi	mathematical italic small phi
U+1D712	χ	χ	χ	χ	χ	\mitchi	mathematical italic small chi
U+1D713	ψ	ψ	ψ	ψ	ψ	\mitpsi	mathematical italic small psi
U+1D714	ω	ω	ω	ω	ω	\mitomega	mathematical italic small omega
U+1D715	∂	∂	∂	∂	∂	\mitpartial	mathematical italic partial differential
U+1D716	ε	ε	ε	ε	ε	\mitepsilon	mathematical italic varepsilon symbol
U+1D717	θ	θ	θ	θ	θ	\mitvartheta	mathematical italic theta symbol
U+1D718	κ	κ	κ	κ	κ	\mitvarkappa	mathematical italic kappa symbol
U+1D719	ϕ	ϕ	ϕ	ϕ	ϕ	\mitphi	mathematical italic phi symbol
U+1D71A	ϱ	ϱ	ϱ	ϱ	ϱ	\mitvarrho	mathematical italic rho symbol
U+1D71B	ϖ	ϖ	ϖ	ϖ	ϖ	\mitvarpi	mathematical italic pi symbol

15.1.7 Script, Latin, uppercase

USV	L	S	E	P	D	Macro	Description
U+1D49C	𝒜	𝒜	𝒜	𝒜	𝒜	\mscrA	mathematical script capital a
U+1D49E	𝒞	𝒞	𝒞	𝒞	𝒞	\mscrC	mathematical script capital c
U+1D49F	𝒟	𝒟	𝒟	𝒟	𝒟	\mscrD	mathematical script capital d
U+1D4A2	𝒢	𝒢	𝒢	𝒢	𝒢	\mscrG	mathematical script capital g
U+1D4A5	𝒢	𝒢	𝒢	𝒢	𝒢	\mscrJ	mathematical script capital j

USV	L	S	E	P	D	Macro	Description
U+1D4A6	ꝑ	Ꝓ	ꝓ	Ꝕ	ꝕ	\mscrK	mathematical script capital k
U+1D4A9	ꝑ	Ꝓ	ꝓ	Ꝕ	ꝕ	\mscrN	mathematical script capital n
U+1D4AA	ꝑ	Ꝓ	ꝓ	Ꝕ	ꝕ	\mscrO	mathematical script capital o
U+1D4AB	ꝑ	Ꝓ	ꝓ	Ꝕ	ꝕ	\mscrP	mathematical script capital p
U+1D4AC	ꝑ	Ꝓ	ꝓ	Ꝕ	ꝕ	\mscrQ	mathematical script capital q
U+1D4AE	ꝑ	Ꝓ	ꝓ	Ꝕ	ꝕ	\mscrS	mathematical script capital s
U+1D4AF	ꝑ	Ꝓ	ꝓ	Ꝕ	ꝕ	\mscrT	mathematical script capital t
U+1D4B0	ꝑ	Ꝓ	ꝓ	Ꝕ	ꝕ	\mscrU	mathematical script capital u
U+1D4B1	ꝑ	Ꝓ	ꝓ	Ꝕ	ꝕ	\mscrV	mathematical script capital v
U+1D4B2	ꝑ	Ꝓ	ꝓ	Ꝕ	ꝕ	\mscrW	mathematical script capital w
U+1D4B3	ꝑ	Ꝓ	ꝓ	Ꝕ	ꝕ	\mscrX	mathematical script capital x
U+1D4B4	ꝑ	Ꝓ	ꝓ	Ꝕ	ꝕ	\mscrY	mathematical script capital y
U+1D4B5	ꝑ	Ꝓ	ꝓ	Ꝕ	ꝕ	\mscrZ	mathematical script capital z

15.1.8 Script, Latin, lowercase

USV	L	S	E	P	D	Macro	Description
U+1D4B6	ꝑ	ꝑ	ꝑ	ꝑ	ꝑ	\mscra	mathematical script small a
U+1D4B7	ꝑ	ꝑ	ꝑ	ꝑ	ꝑ	\mscrb	mathematical script small b
U+1D4B8	ꝑ	ꝑ	ꝑ	ꝑ	ꝑ	\mscrc	mathematical script small c
U+1D4B9	ꝑ	ꝑ	ꝑ	ꝑ	ꝑ	\mscrd	mathematical script small d
U+1D4BB	ꝑ	ꝑ	ꝑ	ꝑ	ꝑ	\mscrf	mathematical script small f
U+1D4BD	ꝑ	ꝑ	ꝑ	ꝑ	ꝑ	\mscrh	mathematical script small h
U+1D4BE	ꝑ	ꝑ	ꝑ	ꝑ	ꝑ	\mscri	mathematical script small i
U+1D4BF	ꝑ	ꝑ	ꝑ	ꝑ	ꝑ	\mscrj	mathematical script small j

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

15.1.9 Fraktur, Latin, uppercase

USV	L	S	E	P	D	Macro	Description
U+1D504	ꝑ	ꝑ	ꝑ	ꝑ	ꝑ	\mfrakA	mathematical fraktur capital a
U+1D505	ꝑ	ꝑ	ꝑ	ꝑ	ꝑ	\mfrakB	mathematical fraktur capital b
U+1D507	ꝑ	ꝑ	ꝑ	ꝑ	ꝑ	\mfrakD	mathematical fraktur capital d
U+1D508	ꝑ	ꝑ	ꝑ	ꝑ	ꝑ	\mfrakE	mathematical fraktur capital e
U+1D509	ꝑ	ꝑ	ꝑ	ꝑ	ꝑ	\mfrakF	mathematical fraktur capital f
U+1D50A	ꝑ	ꝑ	ꝑ	ꝑ	ꝑ	\mfrakG	mathematical fraktur capital g

USV	L	S	E	P	D	Macro	Description
U+1D50D	Ĵ	Ĵ	Ĵ	Ĵ	Ĵ	\mfrakJ	mathematical fraktur capital j
U+1D50E	Ķ	Ķ	Ķ	Ķ	Ķ	\mfrakK	mathematical fraktur capital k
U+1D50F	Ļ	Ļ	Ļ	Ļ	Ļ	\mfrakL	mathematical fraktur capital l
U+1D510	ℳ	ℳ	ℳ	ℳ	ℳ	\mfrakM	mathematical fraktur capital m
U+1D511	Ņ	Ņ	Ņ	Ņ	Ņ	\mfrakN	mathematical fraktur capital n
U+1D512	Ŗ	Ŗ	Ŗ	Ŗ	Ŗ	\mfrakO	mathematical fraktur capital o
U+1D513	Ŗ	Ŗ	Ŗ	Ŗ	Ŗ	\mfrakP	mathematical fraktur capital p
U+1D514	Ŗ	Ŗ	Ŗ	Ŗ	Ŗ	\mfrakQ	mathematical fraktur capital q
U+1D516	Ŗ	Ŗ	Ŗ	Ŗ	Ŗ	\mfrakS	mathematical fraktur capital s
U+1D517	Ŗ	Ŗ	Ŗ	Ŗ	Ŗ	\mfrakT	mathematical fraktur capital t
U+1D518	Ŗ	Ŗ	Ŗ	Ŗ	Ŗ	\mfrakU	mathematical fraktur capital u
U+1D519	Ŗ	Ŗ	Ŗ	Ŗ	Ŗ	\mfrakV	mathematical fraktur capital v
U+1D51A	Ŗ	Ŗ	Ŗ	Ŗ	Ŗ	\mfrakW	mathematical fraktur capital w
U+1D51B	Ŗ	Ŗ	Ŗ	Ŗ	Ŗ	\mfrakX	mathematical fraktur capital x
U+1D51C	Ŗ	Ŗ	Ŗ	Ŗ	Ŗ	\mfrakY	mathematical fraktur capital y

15.1.10 Fraktur, Latin, lowercase

USV	L	S	E	P	D	Macro	Description
U+1D51E	ä	ä	ä	ä	ä	\mfraka	mathematical fraktur small a
U+1D51F	ö	ö	ö	ö	ö	\mfrakb	mathematical fraktur small b
U+1D520	ç	ç	ç	ç	ç	\mfrakc	mathematical fraktur small c
U+1D521	đ	đ	đ	đ	đ	\mfrakd	mathematical fraktur small d
U+1D522	ë	ë	ë	ë	ë	\mfrake	mathematical fraktur small e
U+1D523	ƒ	ƒ	ƒ	ƒ	ƒ	\mfrakf	mathematical fraktur small f

USV	L	S	E	P	D	Macro	Description
U+1D524	ℊ	ℊ	ℊ	ℊ	ℊ	\mathfrak{g}	mathematical fraktur small g
U+1D525	ℎ	ℎ	ℎ	ℎ	ℎ	\mathfrak{h}	mathematical fraktur small h
U+1D526	ℒ	ℒ	ℒ	ℒ	ℒ	\mathfrak{i}	mathematical fraktur small i
U+1D527	ℍ	ℍ	ℍ	ℍ	ℍ	\mathfrak{j}	mathematical fraktur small j
U+1D528	ℌ	ℌ	ℌ	ℌ	ℌ	\mathfrak{k}	mathematical fraktur small k
U+1D529	ℍ	ℍ	ℍ	ℍ	ℍ	\mathfrak{l}	mathematical fraktur small l
U+1D52A	ℍ	ℍ	ℍ	ℍ	ℍ	\mathfrak{m}	mathematical fraktur small m
U+1D52B	ℍ	ℍ	ℍ	ℍ	ℍ	\mathfrak{n}	mathematical fraktur small n
U+1D52C	ℍ	ℍ	ℍ	ℍ	ℍ	\mathfrak{o}	mathematical fraktur small o
U+1D52D	ℍ	ℍ	ℍ	ℍ	ℍ	\mathfrak{p}	mathematical fraktur small p
U+1D52E	ℍ	ℍ	ℍ	ℍ	ℍ	\mathfrak{q}	mathematical fraktur small q
U+1D52F	ℍ	ℍ	ℍ	ℍ	ℍ	\mathfrak{r}	mathematical fraktur small r
U+1D530	ℍ	ℍ	ℍ	ℍ	ℍ	\mathfrak{s}	mathematical fraktur small s
U+1D531	ℍ	ℍ	ℍ	ℍ	ℍ	\mathfrak{t}	mathematical fraktur small t
U+1D532	ℍ	ℍ	ℍ	ℍ	ℍ	\mathfrak{u}	mathematical fraktur small u
U+1D533	ℍ	ℍ	ℍ	ℍ	ℍ	\mathfrak{v}	mathematical fraktur small v
U+1D534	ℍ	ℍ	ℍ	ℍ	ℍ	\mathfrak{w}	mathematical fraktur small w
U+1D535	ℍ	ℍ	ℍ	ℍ	ℍ	\mathfrak{x}	mathematical fraktur small x
U+1D536	ℍ	ℍ	ℍ	ℍ	ℍ	\mathfrak{y}	mathematical fraktur small y
U+1D537	ℍ	ℍ	ℍ	ℍ	ℍ	\mathfrak{z}	mathematical fraktur small z

15.1.11 Blackboard, Latin, uppercase

USV	L	S	E	P	D	Macro	Description
U+1D538	𝔸	𝔸	𝔸	𝔸	𝔸	\mathbb{A}	mathematical double-struck capital a

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

15.1.12 Blackboard, Latin, lowercase

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

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

15.1.13 Sans serif, Latin, uppercase

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

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

15.1.14 Sans serif, Latin, lowercase

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

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

15.1.15 Italic sans serif, Latin, uppercase

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

USV	L	S	E	P	D	Macro	Description
U+1D615	N	N	N	N	N	\mitsansN	mathematical sans-serif italic capital n
U+1D616	O	O	O	O	O	\mitsansO	mathematical sans-serif italic capital o
U+1D617	P	P	P	P	P	\mitsansP	mathematical sans-serif italic capital p
U+1D618	Q	Q	Q	Q	Q	\mitsansQ	mathematical sans-serif italic capital q
U+1D619	R	R	R	R	R	\mitsansR	mathematical sans-serif italic capital r
U+1D61A	S	S	S	S	S	\mitsansS	mathematical sans-serif italic capital s
U+1D61B	T	T	T	T	T	\mitsansT	mathematical sans-serif italic capital t
U+1D61C	U	U	U	U	U	\mitsansU	mathematical sans-serif italic capital u
U+1D61D	V	V	V	V	V	\mitsansV	mathematical sans-serif italic capital v
U+1D61E	W	W	W	W	W	\mitsansW	mathematical sans-serif italic capital w
U+1D61F	X	X	X	X	X	\mitsansX	mathematical sans-serif italic capital x
U+1D620	Y	Y	Y	Y	Y	\mitsansY	mathematical sans-serif italic capital y
U+1D621	Z	Z	Z	Z	Z	\mitsansZ	mathematical sans-serif italic capital z

15.1.16 Italic sans serif, Latin, lowercase

USV	L	S	E	P	D	Macro	Description
U+1D622	a	a	a	a	a	\mitsansa	mathematical sans-serif italic small a
U+1D623	b	b	b	b	b	\mitsansb	mathematical sans-serif italic small b
U+1D624	c	c	c	c	c	\mitsansc	mathematical sans-serif italic small c
U+1D625	d	d	d	d	d	\mitsansd	mathematical sans-serif italic small d
U+1D626	e	e	e	e	e	\mitsanse	mathematical sans-serif italic small e
U+1D627	f	f	f	f	f	\mitsansf	mathematical sans-serif italic small f
U+1D628	g	g	g	g	g	\mitsansg	mathematical sans-serif italic small g
U+1D629	h	h	h	h	h	\mitsansh	mathematical sans-serif italic small h

USV	L	S	E	P	D	Macro	Description
U+1D62A	i	i	i	i	i	\mitsansi	mathematical sans-serif italic small i
U+1D62B	j	j	j	j	j	\mitsansj	mathematical sans-serif italic small j
U+1D62C	k	k	k	k	k	\mitsansk	mathematical sans-serif italic small k
U+1D62D	l	l	l	l	l	\mitsansl	mathematical sans-serif italic small l
U+1D62E	m	m	m	m	m	\mitsansm	mathematical sans-serif italic small m
U+1D62F	n	n	n	n	n	\mitsansn	mathematical sans-serif italic small n
U+1D630	o	o	o	o	o	\mitsanso	mathematical sans-serif italic small o
U+1D631	p	p	p	p	p	\mitsansp	mathematical sans-serif italic small p
U+1D632	q	q	q	q	q	\mitsansq	mathematical sans-serif italic small q
U+1D633	r	r	r	r	r	\mitsansr	mathematical sans-serif italic small r
U+1D634	s	s	s	s	s	\mitsanss	mathematical sans-serif italic small s
U+1D635	t	t	t	t	t	\mitsanst	mathematical sans-serif italic small t
U+1D636	u	u	u	u	u	\mitsansu	mathematical sans-serif italic small u
U+1D637	v	v	v	v	v	\mitsansv	mathematical sans-serif italic small v
U+1D638	w	w	w	w	w	\mitsansw	mathematical sans-serif italic small w
U+1D639	x	x	x	x	x	\mitsansx	mathematical sans-serif italic small x
U+1D63A	y	y	y	y	y	\mitsansy	mathematical sans-serif italic small y
U+1D63B	z	z	z	z	z	\mitsansz	mathematical sans-serif italic small z

15.1.17 Typewriter, Latin, uppercase

USV	L	S	E	P	D	Macro	Description
U+1D670	A	A	A	A	A	\mttA	mathematical monospace capital a
U+1D671	B	B	B	B	B	\mttB	mathematical monospace capital b
U+1D672	C	C	C	C	C	\mttC	mathematical monospace capital c

USV	L	S	E	P	D	Macro	Description
U+1D673	D	D	D	D	D	\mttD	mathematical monospace capital d
U+1D674	E	E	E	E	E	\mttE	mathematical monospace capital e
U+1D675	F	F	F	F	F	\mttF	mathematical monospace capital f
U+1D676	G	G	G	G	G	\mttG	mathematical monospace capital g
U+1D677	H	H	H	H	H	\mttH	mathematical monospace capital h
U+1D678	I	I	I	I	I	\mttI	mathematical monospace capital i
U+1D679	J	J	J	J	J	\mttJ	mathematical monospace capital j
U+1D67A	K	K	K	K	K	\mttK	mathematical monospace capital k
U+1D67B	L	L	L	L	L	\mttL	mathematical monospace capital l
U+1D67C	M	M	M	M	M	\mttM	mathematical monospace capital m
U+1D67D	N	N	N	N	N	\mttN	mathematical monospace capital n
U+1D67E	O	O	O	O	O	\mttO	mathematical monospace capital o
U+1D67F	P	P	P	P	P	\mttP	mathematical monospace capital p
U+1D680	Q	Q	Q	Q	Q	\mttQ	mathematical monospace capital q
U+1D681	R	R	R	R	R	\mttR	mathematical monospace capital r
U+1D682	S	S	S	S	S	\mttS	mathematical monospace capital s
U+1D683	T	T	T	T	T	\mttT	mathematical monospace capital t
U+1D684	U	U	U	U	U	\mttU	mathematical monospace capital u
U+1D685	V	V	V	V	V	\mttV	mathematical monospace capital v
U+1D686	W	W	W	W	W	\mttW	mathematical monospace capital w
U+1D687	X	X	X	X	X	\mttX	mathematical monospace capital x
U+1D688	Y	Y	Y	Y	Y	\mttY	mathematical monospace capital y
U+1D689	Z	Z	Z	Z	Z	\mttZ	mathematical monospace capital z

15.1.18 Typewriter, Latin, lowercase

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

USV	L	S	E	P	D	Macro	Description
U+1D6A1	x	x	x	x	x	\mathtt{x}	mathematical monospace small x
U+1D6A2	y	y	y	y	y	\mathtt{y}	mathematical monospace small y
U+1D6A3	z	z	z	z	z	\mathtt{z}	mathematical monospace small z

15.2 Bold

15.2.1 Bold, Latin, uppercase

USV	L	S	E	P	D	Macro	Description
U+1D400	A	A	A	A	A	\mathbf{A}	mathematical bold capital a
U+1D401	B	B	B	B	B	\mathbf{B}	mathematical bold capital b
U+1D402	C	C	C	C	C	\mathbf{C}	mathematical bold capital c
U+1D403	D	D	D	D	D	\mathbf{D}	mathematical bold capital d
U+1D404	E	E	E	E	E	\mathbf{E}	mathematical bold capital e
U+1D405	F	F	F	F	F	\mathbf{F}	mathematical bold capital f
U+1D406	G	G	G	G	G	\mathbf{G}	mathematical bold capital g
U+1D407	H	H	H	H	H	\mathbf{H}	mathematical bold capital h
U+1D408	I	I	I	I	I	\mathbf{I}	mathematical bold capital i
U+1D409	J	J	J	J	J	\mathbf{J}	mathematical bold capital j
U+1D40A	K	K	K	K	K	\mathbf{K}	mathematical bold capital k
U+1D40B	L	L	L	L	L	\mathbf{L}	mathematical bold capital l
U+1D40C	M	M	M	M	M	\mathbf{M}	mathematical bold capital m
U+1D40D	N	N	N	N	N	\mathbf{N}	mathematical bold capital n
U+1D40E	O	O	O	O	O	\mathbf{O}	mathematical bold capital o
U+1D40F	P	P	P	P	P	\mathbf{P}	mathematical bold capital p
U+1D410	Q	Q	Q	Q	Q	\mathbf{Q}	mathematical bold capital q

USV	L	S	E	P	D	Macro	Description
U+1D411	R	R	R	R	R	\mbfR	mathematical bold capital r
U+1D412	S	S	S	S	S	\mbfS	mathematical bold capital s
U+1D413	T	T	T	T	T	\mbfT	mathematical bold capital t
U+1D414	U	U	U	U	U	\mbfU	mathematical bold capital u
U+1D415	V	V	V	V	V	\mbfV	mathematical bold capital v
U+1D416	W	W	W	W	W	\mbfW	mathematical bold capital w
U+1D417	X	X	X	X	X	\mbfX	mathematical bold capital x
U+1D418	Y	Y	Y	Y	Y	\mbfY	mathematical bold capital y
U+1D419	Z	Z	Z	Z	Z	\mbfZ	mathematical bold capital z

15.2.2 Bold, Latin, lowercase

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

USV	L	S	E	P	D	Macro	Description
U+1D426	m	m	m	m	m	\mbf{m}	mathematical bold small m
U+1D427	n	n	n	n	n	\mbf{n}	mathematical bold small n
U+1D428	o	o	o	o	o	\mbf{o}	mathematical bold small o
U+1D429	p	p	p	p	p	\mbf{p}	mathematical bold small p
U+1D42A	q	q	q	q	q	\mbf{q}	mathematical bold small q
U+1D42B	r	r	r	r	r	\mbf{r}	mathematical bold small r
U+1D42C	s	s	s	s	s	\mbf{s}	mathematical bold small s
U+1D42D	t	t	t	t	t	\mbf{t}	mathematical bold small t
U+1D42E	u	u	u	u	u	\mbf{u}	mathematical bold small u
U+1D42F	v	v	v	v	v	\mbf{v}	mathematical bold small v
U+1D430	w	w	w	w	w	\mbf{w}	mathematical bold small w
U+1D431	x	x	x	x	x	\mbf{x}	mathematical bold small x
U+1D432	y	y	y	y	y	\mbf{y}	mathematical bold small y
U+1D433	z	z	z	z	z	\mbf{z}	mathematical bold small z

15.2.3 Bold Greek, uppercase

USV	L	S	E	P	D	Macro	Description
U+1D6A8	A	A	A	A	A	\mbf{Alpha}	mathematical bold capital alpha
U+1D6A9	B	B	B	B	B	\mbf{Beta}	mathematical bold capital beta
U+1D6AA	Г	Г	Г	Г	Г	\mbf{Gamma}	mathematical bold capital gamma
U+1D6AB	Δ	Δ	Δ	Δ	Δ	\mbf{Delta}	mathematical bold capital delta
U+1D6AC	Ε	Ε	Ε	Ε	Ε	\mbf{Epsilon}	mathematical bold capital epsilon
U+1D6AD	Ζ	Ζ	Ζ	Ζ	Ζ	\mbf{Zeta}	mathematical bold capital zeta
U+1D6AE	Η	Η	Η	Η	Η	\mbf{Eta}	mathematical bold capital eta

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

15.2.4 Bold Greek, lowercase

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

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

USV	L	S	E	P	D	Macro	Description
U+1D6DD	ϑ	ϑ	ϑ	ϑ	ϑ	\mbfvartheta	mathematical bold theta symbol
U+1D6DE	ϰ	ϰ	ϰ	ϰ	ϰ	\mbfvarkappa	mathematical bold kappa symbol
U+1D6DF	ϕ	ϕ	ϕ	ϕ	ϕ	\mbfphi	mathematical bold phi symbol
U+1D6EO	ϱ	ϱ	ϱ	ϱ	ϱ	\mbfvarrho	mathematical bold rho symbol
U+1D6E1	ϖ	ϖ	ϖ	ϖ	ϖ	\mbfvarpi	mathematical bold pi symbol

15.2.5 Bold italic, Latin, uppercase

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

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

15.2.6 Bold italic, Latin, lowercase

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

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

15.2.7 Bold italic Greek, uppercase

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

USV	L	S	E	P	D	Macro	Description
U+1D722	H	H	H	H	H	\mbfitEta	mathematical bold italic capital eta
U+1D723	Θ	Θ	Θ	Θ	Θ	\mbfitTheta	mathematical bold italic capital theta
U+1D724	I	I	I	I	I	\mbfitIota	mathematical bold italic capital iota
U+1D725	K	K	K	K	K	\mbfitKappa	mathematical bold italic capital kappa
U+1D726	Λ	Λ	Λ	Λ	Λ	\mbfitLambda	mathematical bold italic capital lambda
U+1D727	M	M	M	M	M	\mbfitMu	mathematical bold italic capital mu
U+1D728	N	N	N	N	N	\mbfitNu	mathematical bold italic capital nu
U+1D729	Ξ	Ξ	Ξ	Ξ	Ξ	\mbfitXi	mathematical bold italic capital xi
U+1D72A	ο	ο	ο	ο	ο	\mbfitOmicron	mathematical bold italic capital omicron
U+1D72B	Π	Π	Π	Π	Π	\mbfitPi	mathematical bold italic capital pi
U+1D72C	Ρ	Ρ	Ρ	Ρ	Ρ	\mbfitRho	mathematical bold italic capital rho
U+1D72D	Θ̄	Θ̄	Θ̄	Θ̄	Θ̄	\mbfitvarTheta	mathematical bold italic capital theta symbol
U+1D72E	Σ̄	Σ̄	Σ̄	Σ̄	Σ̄	\mbfitSigma	mathematical bold italic capital sigma
U+1D72F	Τ̄	Τ̄	Τ̄	Τ̄	Τ̄	\mbfitTau	mathematical bold italic capital tau
U+1D730	Ῡ	Ῡ	Ῡ	Ῡ	Ῡ	\mbfitUpsilon	mathematical bold italic capital upsilon
U+1D731	Φ̄	Φ̄	Φ̄	Φ̄	Φ̄	\mbfitPhi	mathematical bold italic capital phi
U+1D732	Χ̄	Χ̄	Χ̄	Χ̄	Χ̄	\mbfitChi	mathematical bold italic capital chi
U+1D733	Ψ̄	Ψ̄	Ψ̄	Ψ̄	Ψ̄	\mbfitPsi	mathematical bold italic capital psi
U+1D734	Ω̄	Ω̄	Ω̄	Ω̄	Ω̄	\mbfitOmega	mathematical bold italic capital omega

15.2.8 Bold italic Greek, lowercase

USV	L	S	E	P	D	Macro	Description
U+1D736	ᾱ	ᾱ	ᾱ	ᾱ	ᾱ	\mbfitalpha	mathematical bold italic small alpha
U+1D737	β̄	β̄	β̄	β̄	β̄	\mbfitbeta	mathematical bold italic small beta

USV	L	S	E	P	D	Macro	Description
U+1D738	γ	γ	γ	γ	γ	\mbfitgamma	mathematical bold italic small gamma
U+1D739	δ	δ	δ	δ	δ	\mbfitdelta	mathematical bold italic small delta
U+1D73A	ε	ε	ε	ε	ε	\mbfitvarepsilon	mathematical bold italic small varepsilon
U+1D73B	ζ	ζ	ζ	ζ	ζ	\mbfitzeta	mathematical bold italic small zeta
U+1D73C	η	η	η	η	η	\mbfite	mathematical bold italic small eta
U+1D73D	θ	θ	θ	θ	θ	\mbfittheta	mathematical bold italic small theta
U+1D73E	ι	ι	ι	ι	ι	\mbfitiota	mathematical bold italic small iota
U+1D73F	κ	κ	κ	κ	κ	\mbfitkappa	mathematical bold italic small kappa
U+1D740	λ	λ	λ	λ	λ	\mbfitlambda	mathematical bold italic small lambda
U+1D741	μ	μ	μ	μ	μ	\mbfitmu	mathematical bold italic small mu
U+1D742	ν	ν	ν	ν	ν	\mbfitnu	mathematical bold italic small nu
U+1D743	ξ	ξ	ξ	ξ	ξ	\mbfitxi	mathematical bold italic small xi
U+1D744	ο	ο	ο	ο	ο	\mbfitomicron	mathematical bold italic small omicron
U+1D745	π	π	π	π	π	\mbfitpi	mathematical bold italic small pi
U+1D746	ρ	ρ	ρ	ρ	ρ	\mbfitrho	mathematical bold italic small rho
U+1D747	ς	ς	ς	ς	ς	\mbfitvarsigma	mathematical bold italic small final sigma
U+1D748	σ	σ	σ	σ	σ	\mbfitsigma	mathematical bold italic small sigma
U+1D749	τ	τ	τ	τ	τ	\mbfittau	mathematical bold italic small tau
U+1D74A	υ	υ	υ	υ	υ	\mbfitupsilon	mathematical bold italic small upsilon
U+1D74B	φ	φ	φ	φ	φ	\mbfitvarphi	mathematical bold italic small phi
U+1D74C	χ	χ	χ	χ	χ	\mbfitchi	mathematical bold italic small chi
U+1D74D	ψ	ψ	ψ	ψ	ψ	\mbfitpsi	mathematical bold italic small psi
U+1D74E	ω	ω	ω	ω	ω	\mbfitomega	mathematical bold italic small omega
U+1D74F	∂	∂	∂	∂	∂	\mbfitpartial	mathematical bold italic partial differential

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

15.2.9 Bold script, Latin, uppercase

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

USV	L	S	E	P	D	Macro	Description
U+1D4DF	𝒫	𝒫	𝒫	𝒫	𝒫	\mathbf{scrP}	mathematical bold script capital p
U+1D4E0	𝒬	𝒬	𝒬	𝒬	𝒬	\mathbf{scrQ}	mathematical bold script capital q
U+1D4E1	𝒬	𝒬	𝒬	𝒬	𝒬	\mathbf{scrR}	mathematical bold script capital r
U+1D4E2	𝒬	𝒬	𝒬	𝒬	𝒬	\mathbf{scrS}	mathematical bold script capital s
U+1D4E3	𝒬	𝒬	𝒬	𝒬	𝒬	\mathbf{scrT}	mathematical bold script capital t
U+1D4E4	𝒬	𝒬	𝒬	𝒬	𝒬	\mathbf{scrU}	mathematical bold script capital u
U+1D4E5	𝒬	𝒬	𝒬	𝒬	𝒬	\mathbf{scrV}	mathematical bold script capital v
U+1D4E6	𝒬	𝒬	𝒬	𝒬	𝒬	\mathbf{scrW}	mathematical bold script capital w
U+1D4E7	𝒬	𝒬	𝒬	𝒬	𝒬	\mathbf{scrX}	mathematical bold script capital x
U+1D4E8	𝒬	𝒬	𝒬	𝒬	𝒬	\mathbf{scrY}	mathematical bold script capital y
U+1D4E9	𝒬	𝒬	𝒬	𝒬	𝒬	\mathbf{scrZ}	mathematical bold script capital z

15.2.10 Bold script, Latin, lowercase

USV	L	S	E	P	D	Macro	Description
U+1D4EA	𝒶	𝒶	𝒶	𝒶	𝒶	\mathbf{scra}	mathematical bold script small a
U+1D4EB	𝒷	𝒷	𝒷	𝒷	𝒷	\mathbf{scrb}	mathematical bold script small b
U+1D4EC	𝒸	𝒸	𝒸	𝒸	𝒸	\mathbf{scrc}	mathematical bold script small c
U+1D4ED	𝒹	𝒹	𝒹	𝒹	𝒹	\mathbf{scrd}	mathematical bold script small d
U+1D4EE	ℯ	ℯ	ℯ	ℯ	ℯ	\mathbf{scre}	mathematical bold script small e
U+1D4EF	𝒻	𝒻	𝒻	𝒻	𝒻	\mathbf{scrf}	mathematical bold script small f
U+1D4FO	ℊ	ℊ	ℊ	ℊ	ℊ	\mathbf{scrg}	mathematical bold script small g
U+1D4F1	ℼ	ℼ	ℼ	ℼ	ℼ	\mathbf{scrh}	mathematical bold script small h
U+1D4F2	𝒾	𝒾	𝒾	𝒾	𝒾	\mathbf{scri}	mathematical bold script small i
U+1D4F3	𝒿	𝒿	𝒿	𝒿	𝒿	\mathbf{scrj}	mathematical bold script small j

USV	L	S	E	P	D	Macro	Description
U+1D4F4	ꝑ	ꝑ	ꝑ	ꝑ	ꝑ	\mbfscrk	mathematical bold script small k
U+1D4F5	Ꝓ	Ꝓ	Ꝓ	Ꝓ	Ꝓ	\mbfscrl	mathematical bold script small l
U+1D4F6	ꝓ	ꝓ	ꝓ	ꝓ	ꝓ	\mbfscrm	mathematical bold script small m
U+1D4F7	Ꝕ	Ꝕ	Ꝕ	Ꝕ	Ꝕ	\mbfscrn	mathematical bold script small n
U+1D4F8	ꝕ	ꝕ	ꝕ	ꝕ	ꝕ	\mbfscro	mathematical bold script small o
U+1D4F9	Ꝗ	Ꝗ	Ꝗ	Ꝗ	Ꝗ	\mbfscrp	mathematical bold script small p
U+1D4FA	ꝗ	ꝗ	ꝗ	ꝗ	ꝗ	\mbfscrq	mathematical bold script small q
U+1D4FB	Ꝙ	Ꝙ	Ꝙ	Ꝙ	Ꝙ	\mbfscrr	mathematical bold script small r
U+1D4FC	ꝙ	ꝙ	ꝙ	ꝙ	ꝙ	\mbfscrs	mathematical bold script small s
U+1D4FD	Ꝛ	Ꝛ	Ꝛ	Ꝛ	Ꝛ	\mbfscrt	mathematical bold script small t
U+1D4FE	ꝛ	ꝛ	ꝛ	ꝛ	ꝛ	\mbfscru	mathematical bold script small u
U+1D4FF	Ꝝ	Ꝝ	Ꝝ	Ꝝ	Ꝝ	\mbfscrv	mathematical bold script small v
U+1D500	ꝝ	ꝝ	ꝝ	ꝝ	ꝝ	\mbfscrw	mathematical bold script small w
U+1D501	Ꝟ	Ꝟ	Ꝟ	Ꝟ	Ꝟ	\mbfscrx	mathematical bold script small x
U+1D502	ꝟ	ꝟ	ꝟ	ꝟ	ꝟ	\mbfscry	mathematical bold script small y
U+1D503	Ꝡ	Ꝡ	Ꝡ	Ꝡ	Ꝡ	\mbfscrz	mathematical bold script small z

15.2.11 Bold fraktur, Latin, uppercase

USV	L	S	E	P	D	Macro	Description
U+1D56C	Ꝡ	Ꝡ	Ꝡ	Ꝡ	Ꝡ	\mbfffrakA	mathematical bold fraktur capital a
U+1D56D	ꝡ	ꝡ	ꝡ	ꝡ	ꝡ	\mbfffrakB	mathematical bold fraktur capital b
U+1D56E	Ꝣ	Ꝣ	Ꝣ	Ꝣ	Ꝣ	\mbfffrakC	mathematical bold fraktur capital c
U+1D56F	ꝣ	ꝣ	ꝣ	ꝣ	ꝣ	\mbfffrakD	mathematical bold fraktur capital d
U+1D570	Ꝥ	Ꝥ	Ꝥ	Ꝥ	Ꝥ	\mbfffrakE	mathematical bold fraktur capital e

USV	L	S	E	P	D	Macro	Description
U+1D571	Ƒ	ƒ	Ƒ	ƒ	Ƒ	\mbffrakF	mathematical bold fraktur capital f
U+1D572	Ԍ	Ԍ	Ԍ	Ԍ	Ԍ	\mbffrakG	mathematical bold fraktur capital g
U+1D573	Ԥ	Ԥ	Ԥ	Ԥ	Ԥ	\mbffrakH	mathematical bold fraktur capital h
U+1D574	Ԇ	Ԇ	Ԇ	Ԇ	Ԇ	\mbffrakI	mathematical bold fraktur capital i
U+1D575	Ԇ	Ԇ	Ԇ	Ԇ	Ԇ	\mbffrakJ	mathematical bold fraktur capital j
U+1D576	Ԉ	Ԉ	Ԉ	Ԉ	Ԉ	\mbffrakK	mathematical bold fraktur capital k
U+1D577	Ԉ	Ԉ	Ԉ	Ԉ	Ԉ	\mbffrakL	mathematical bold fraktur capital l
U+1D578	Ԉ	Ԉ	Ԉ	Ԉ	Ԉ	\mbffrakM	mathematical bold fraktur capital m
U+1D579	Ԉ	Ԉ	Ԉ	Ԉ	Ԉ	\mbffrakN	mathematical bold fraktur capital n
U+1D57A	Ԉ	Ԉ	Ԉ	Ԉ	Ԉ	\mbffrakO	mathematical bold fraktur capital o
U+1D57B	Ԉ	Ԉ	Ԉ	Ԉ	Ԉ	\mbffrakP	mathematical bold fraktur capital p
U+1D57C	Ԉ	Ԉ	Ԉ	Ԉ	Ԉ	\mbffrakQ	mathematical bold fraktur capital q
U+1D57D	Ԉ	Ԉ	Ԉ	Ԉ	Ԉ	\mbffrakR	mathematical bold fraktur capital r
U+1D57E	ԑ	ԑ	ԑ	ԑ	ԑ	\mbffrakS	mathematical bold fraktur capital s
U+1D57F	ԑ	ԑ	ԑ	ԑ	ԑ	\mbffrakT	mathematical bold fraktur capital t
U+1D580	ԑ	ԑ	ԑ	ԑ	ԑ	\mbffrakU	mathematical bold fraktur capital u
U+1D581	ԑ	ԑ	ԑ	ԑ	ԑ	\mbffrakV	mathematical bold fraktur capital v
U+1D582	ԑ	ԑ	ԑ	ԑ	ԑ	\mbffrakW	mathematical bold fraktur capital w
U+1D583	ԑ	ԑ	ԑ	ԑ	ԑ	\mbffrakX	mathematical bold fraktur capital x
U+1D584	ԑ	ԑ	ԑ	ԑ	ԑ	\mbffrakY	mathematical bold fraktur capital y
U+1D585	ԑ	ԑ	ԑ	ԑ	ԑ	\mbffrakZ	mathematical bold fraktur capital z

15.2.12 Bold fraktur, Latin, lowercase

USV	L	S	E	P	D	Macro	Description
U+1D586	ⓘ	ⓘ	ⓘ	ⓘ	ⓘ	\mbffraka	mathematical bold fraktur small a
U+1D587	ⓘ	ⓘ	ⓘ	ⓘ	ⓘ	\mbffrakb	mathematical bold fraktur small b
U+1D588	ⓘ	ⓘ	ⓘ	ⓘ	ⓘ	\mbffrakc	mathematical bold fraktur small c
U+1D589	ⓘ	ⓘ	ⓘ	ⓘ	ⓘ	\mbffrakd	mathematical bold fraktur small d
U+1D58A	ⓘ	ⓘ	ⓘ	ⓘ	ⓘ	\mbffrake	mathematical bold fraktur small e
U+1D58B	ⓘ	ⓘ	ⓘ	ⓘ	ⓘ	\mbffrakf	mathematical bold fraktur small f
U+1D58C	ⓘ	ⓘ	ⓘ	ⓘ	ⓘ	\mbffrakg	mathematical bold fraktur small g
U+1D58D	ⓘ	ⓘ	ⓘ	ⓘ	ⓘ	\mbffrakh	mathematical bold fraktur small h
U+1D58E	ⓘ	ⓘ	ⓘ	ⓘ	ⓘ	\mbffraki	mathematical bold fraktur small i
U+1D58F	ⓘ	ⓘ	ⓘ	ⓘ	ⓘ	\mbffrakj	mathematical bold fraktur small j
U+1D590	ⓘ	ⓘ	ⓘ	ⓘ	ⓘ	\mbffrakk	mathematical bold fraktur small k
U+1D591	ⓘ	ⓘ	ⓘ	ⓘ	ⓘ	\mbffrakl	mathematical bold fraktur small l
U+1D592	ⓘ	ⓘ	ⓘ	ⓘ	ⓘ	\mbffrakm	mathematical bold fraktur small m
U+1D593	ⓘ	ⓘ	ⓘ	ⓘ	ⓘ	\mbffrakn	mathematical bold fraktur small n
U+1D594	ⓘ	ⓘ	ⓘ	ⓘ	ⓘ	\mbffrako	mathematical bold fraktur small o
U+1D595	ⓘ	ⓘ	ⓘ	ⓘ	ⓘ	\mbffrakp	mathematical bold fraktur small p
U+1D596	ⓘ	ⓘ	ⓘ	ⓘ	ⓘ	\mbffrakq	mathematical bold fraktur small q
U+1D597	ⓘ	ⓘ	ⓘ	ⓘ	ⓘ	\mbffrakr	mathematical bold fraktur small r
U+1D598	ⓘ	ⓘ	ⓘ	ⓘ	ⓘ	\mbffraks	mathematical bold fraktur small s
U+1D599	ⓘ	ⓘ	ⓘ	ⓘ	ⓘ	\mbffrakt	mathematical bold fraktur small t
U+1D59A	ⓘ	ⓘ	ⓘ	ⓘ	ⓘ	\mbffraku	mathematical bold fraktur small u
U+1D59B	ⓘ	ⓘ	ⓘ	ⓘ	ⓘ	\mbffrakv	mathematical bold fraktur small v
U+1D59C	ⓘ	ⓘ	ⓘ	ⓘ	ⓘ	\mbffrakw	mathematical bold fraktur small w
U+1D59D	ⓘ	ⓘ	ⓘ	ⓘ	ⓘ	\mbffrakx	mathematical bold fraktur small x

USV	L	S	E	P	D	Macro	Description
U+1D59E	ȳ	ȶ	ȷ	ȸ	ȹ	\mbffraky	mathematical bold fraktur small y
U+1D59F	ȳ	ȶ	ȷ	ȸ	ȹ	\mbffrakz	mathematical bold fraktur small z

15.2.13 Bold sans serif, Latin, uppercase

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

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

15.2.14 Bold sans serif, Latin, lowercase

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

USV	L	S	E	P	D	Macro	Description
U+1D5FC	o	o	o	o	o	\mbfsanso	mathematical sans-serif bold small o
U+1D5FD	p	p	p	p	p	\mbfsansp	mathematical sans-serif bold small p
U+1D5FE	q	q	q	q	q	\mbfsansq	mathematical sans-serif bold small q
U+1D5FF	r	r	r	r	r	\mbfsansr	mathematical sans-serif bold small r
U+1D600	s	s	s	s	s	\mbfsanss	mathematical sans-serif bold small s
U+1D601	t	t	t	t	t	\mbfsanst	mathematical sans-serif bold small t
U+1D602	u	u	u	u	u	\mbfsansu	mathematical sans-serif bold small u
U+1D603	v	v	v	v	v	\mbfsansv	mathematical sans-serif bold small v
U+1D604	w	w	w	w	w	\mbfsansw	mathematical sans-serif bold small w
U+1D605	x	x	x	x	x	\mbfsansx	mathematical sans-serif bold small x
U+1D606	y	y	y	y	y	\mbfsansy	mathematical sans-serif bold small y
U+1D607	z	z	z	z	z	\mbfsansz	mathematical sans-serif bold small z

15.2.15 Bold italic sans serif, Latin, uppercase

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

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

15.2.16 Bold italic sans serif, Latin, lowercase

USV	L	S	E	P	D	Macro	Description
U+1D656	a	a	a	a	a	\mbfitsansa	mathematical sans-serif bold italic small a
U+1D657	b	b	b	b	b	\mbfitsansb	mathematical sans-serif bold italic small b
U+1D658	c	c	c	c	c	\mbfitsansc	mathematical sans-serif bold italic small c
U+1D659	d	d	d	d	d	\mbfitsansd	mathematical sans-serif bold italic small d

USV	L	S	E	P	D	Macro	Description
U+1D65A	e	e	e	e	e	\mbfitsanse	mathematical sans-serif bold italic small e
U+1D65B	f	f	f	f	f	\mbfitsansf	mathematical sans-serif bold italic small f
U+1D65C	g	g	g	g	g	\mbfitsansg	mathematical sans-serif bold italic small g
U+1D65D	h	h	h	h	h	\mbfitsansh	mathematical sans-serif bold italic small h
U+1D65E	i	i	i	i	i	\mbfitsansi	mathematical sans-serif bold italic small i
U+1D65F	j	j	j	j	j	\mbfitsansj	mathematical sans-serif bold italic small j
U+1D660	k	k	k	k	k	\mbfitsansk	mathematical sans-serif bold italic small k
U+1D661	l	l	l	l	l	\mbfitsansl	mathematical sans-serif bold italic small l
U+1D662	m	m	m	m	m	\mbfitsansm	mathematical sans-serif bold italic small m
U+1D663	n	n	n	n	n	\mbfitsansn	mathematical sans-serif bold italic small n
U+1D664	o	o	o	o	o	\mbfitsanso	mathematical sans-serif bold italic small o
U+1D665	p	p	p	p	p	\mbfitsansp	mathematical sans-serif bold italic small p
U+1D666	q	q	q	q	q	\mbfitsansq	mathematical sans-serif bold italic small q
U+1D667	r	r	r	r	r	\mbfitsansr	mathematical sans-serif bold italic small r
U+1D668	s	s	s	s	s	\mbfitsanss	mathematical sans-serif bold italic small s
U+1D669	t	t	t	t	t	\mbfitsanst	mathematical sans-serif bold italic small t
U+1D66A	u	u	u	u	u	\mbfitsansu	mathematical sans-serif bold italic small u
U+1D66B	v	v	v	v	v	\mbfitsansv	mathematical sans-serif bold italic small v
U+1D66C	w	w	w	w	w	\mbfitsansw	mathematical sans-serif bold italic small w
U+1D66D	x	x	x	x	x	\mbfitsansx	mathematical sans-serif bold italic small x
U+1D66E	y	y	y	y	y	\mbfitsansy	mathematical sans-serif bold italic small y
U+1D66F	z	z	z	z	z	\mbfitsansz	mathematical sans-serif bold italic small z

15.2.17 Bold sans serif Greek, uppercase

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

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

15.2.18 Bold sans serif Greek, lowercase

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

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

15.2.19 Bold italic sans serif Greek, uppercase

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

USV	L	S	E	P	D	Macro	Description
U+1D799	K	K	K	K	K	\mbfitsansKappa	mathematical sans-serif bold italic capital kappa
U+1D79A	Λ	Λ	Λ	Λ	Λ	\mbfitsansLambda	mathematical sans-serif bold italic capital lambda
U+1D79B	M	M	M	M	M	\mbfitsansMu	mathematical sans-serif bold italic capital mu
U+1D79C	N	N	N	N	N	\mbfitsansNu	mathematical sans-serif bold italic capital nu
U+1D79D	Ξ	Ξ	Ξ	Ξ	Ξ	\mbfitsansXi	mathematical sans-serif bold italic capital xi
U+1D79E	Ο	ο	Ο	ο	Ο	\mbfitsansOmicron	mathematical sans-serif bold italic capital omicron
U+1D79F	Π	Π	Π	Π	Π	\mbfitsansPi	mathematical sans-serif bold italic capital pi
U+1D7AO	Ρ	Ρ	Ρ	Ρ	Ρ	\mbfitsansRho	mathematical sans-serif bold italic capital rho
U+1D7A1	Θ	θ	Θ	θ	Θ	\mbfitsansvarTheta	mathematical sans-serif bold italic capital theta symbol
U+1D7A2	Σ	Σ	Σ	Σ	Σ	\mbfitsansSigma	mathematical sans-serif bold italic capital sigma
U+1D7A3	Τ	Τ	Τ	Τ	Τ	\mbfitsansTau	mathematical sans-serif bold italic capital tau
U+1D7A4	Υ	Υ	Υ	Υ	Υ	\mbfitsansUpsilon	mathematical sans-serif bold italic capital upsilon
U+1D7A5	Φ	Φ	Φ	Φ	Φ	\mbfitsansPhi	mathematical sans-serif bold italic capital phi
U+1D7A6	Χ	Χ	Χ	Χ	Χ	\mbfitsansChi	mathematical sans-serif bold italic capital chi
U+1D7A7	Ψ	Ψ	Ψ	Ψ	Ψ	\mbfitsansPsi	mathematical sans-serif bold italic capital psi
U+1D7A8	Ω	Ω	Ω	Ω	Ω	\mbfitsansOmega	mathematical sans-serif bold italic capital omega

15.2.20 Bold italic sans serif Greek, lowercase

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

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

USV	L	S	E	P	D	Macro	Description
U+1D7C7	ɸ	ɸ	ɸ	ɸ	ɸ	\mbfitsansphi	mathematical sans-serif bold italic phi symbol
U+1D7C8	ɻ	ɻ	ɻ	ɻ	ɻ	\mbfitsansvarrho	mathematical sans-serif bold italic rho symbol
U+1D7C9	ϖ	ϖ	ϖ	ϖ	ϖ	\mbfitsansvarpi	mathematical sans-serif bold italic pi symbol

15.3 Miscellaneous

USV	L	S	E	P	D	Macro	Description
U+000FO	ð	ð	ð	ð	ð	\matheth	eth
U+02010	-	-	-	-	-	\mathhyphen	hyphen
U+02102	₡	₵	₵	₵	₵	\BbbC	/bbb c, open face c
U+0210A	ℊ	ℊ	ℊ	ℊ	ℊ	\mscrg	/scr g, script letter g
U+0210B	ℋ	ℋ	ℋ	ℋ	ℋ	\mscrH	hamiltonian (script capital h)
U+0210C	ܵ	ܵ	ܵ	ܵ	ܵ	\mfraKH	/frak h, upper case h
U+0210D	ܵ	ܵ	ܵ	ܵ	ܵ	\BbbH	/bbb h, open face h
U+0210F	ܵ	ܵ	ܵ	ܵ	ܵ	\hslash^{(a)}	/hslash - variant planck's over 2pi
U+02110	ܵ	ܵ	ܵ	ܵ	ܵ	\mscrI	/scr i, script letter i
U+02111	ܵ	ܵ	ܵ	ܵ	ܵ	\Im^{(p)}	imaginary part
U+02112	ܵ	ܵ	ܵ	ܵ	ܵ	\mscrL	lagrangian (script capital l)
U+02113	ܵ	ܵ	ܵ	ܵ	ܵ	\ell^{(p)}	cursive small l
U+02115	ܵ	ܵ	ܵ	ܵ	ܵ	\BbbN	/bbb n, open face n
U+02118	ܵ	ܵ	ܵ	ܵ	ܵ	\wp^{(p)}	weierstrass p
U+02119	ܵ	ܵ	ܵ	ܵ	ܵ	\BbbP	/bbb p, open face p
U+0211A	ܵ	ܵ	ܵ	ܵ	ܵ	\BbbQ	/bbb q, open face q
U+0211B	ܵ	ܵ	ܵ	ܵ	ܵ	\mscrR	/scr r, script letter r
U+0211C	ܵ	ܵ	ܵ	ܵ	ܵ	\Re^{(p)}	real part

USV	L	S	E	P	D	Macro	Description
U+0211D	ꝑ	Ꝓ	ꝑ	ꝓ	Ꝓ	\BbbR	/bbb r, open face r
U+02124	Ꝕ	ꝕ	Ꝕ	ꝕ	ꝕ	\BbbZ	/bbb z, open face z
U+02128	ꝃ	ꝃ	ꝃ	ꝃ	ꝃ	\mfrakZ	/frak z, upper case z
U+02129		ꝁ				\turnediota	turned iota
U+0212B	Ꝁ	Ꝁ	Ꝁ	Ꝁ	Ꝁ	\Angstrom	angstrom capital a, ring
U+0212C	Ꝃ	Ꝃ	Ꝃ	Ꝃ	Ꝃ	\mscrB	bernoulli function (script capital b)
U+0212D	Ꝅ	Ꝅ	Ꝅ	Ꝅ	Ꝅ	\mfrakC	black-letter capital c
U+0212F	ꝅ	ꝅ	ꝅ	ꝅ	ꝅ	\mscre	/scr e, script letter e
U+02130	Ꝇ	Ꝇ	Ꝇ	Ꝇ	Ꝇ	\mscrE	/scr e, script letter e
U+02131	ꝇ	ꝇ	ꝇ	ꝇ	ꝇ	\mscrF	/scr f, script letter f
U+02133	Ꝉ	Ꝉ	Ꝉ	Ꝉ	Ꝉ	\mscrM	physics m-matrix (script capital m)
U+02134	ꝉ	ꝉ	ꝉ	ꝉ	ꝉ	\mscro	order of (script small o)
U+02135	Ꝋ	Ꝋ	Ꝋ	Ꝋ	Ꝋ	\aleph^{(p)}	aleph, hebrew
U+02136	ꝋ	ꝋ	ꝋ	ꝋ	ꝋ	\beth^{(a)}	beth, hebrew
U+02137	Ꝍ	Ꝍ	Ꝍ	Ꝍ	Ꝍ	\gimel^{(a)}	gimel, hebrew
U+02138	ꝍ	ꝍ	ꝍ	ꝍ	ꝍ	\daleth^{(a)}	daleth, hebrew
U+0213D	Ꝏ	ꝏ	ꝏ	ꝏ	ꝏ	\Bbbgamma	double-struck small gamma
U+0213E	Ꝑ	Ꝑ	Ꝑ	Ꝑ	Ꝑ	\BbbGamma	double-struck capital gamma
U+0213F	ꝑ	ꝑ	ꝑ	ꝑ	ꝑ	\BbbPi	double-struck capital pi
U+02202	ꝑ	ꝑ	ꝑ	ꝑ	ꝑ	\partial^{(p)}	partial differential
U+02207	ꝑ	ꝑ	ꝑ	ꝑ	ꝑ	\nabla^{(p)}	nabla, del, hamilton operator
U+1D6A4	ꝑ	ꝑ	ꝑ	ꝑ	ꝑ	\imath^{(p)}	mathematical italic small dotless i
U+1D6A5	ꝑ	ꝑ	ꝑ	ꝑ	ꝑ	\jmath^{(p)}	mathematical italic small dotless j
U+1D6C1	ꝑ	ꝑ	ꝑ	ꝑ	ꝑ	\mbfnabla	mathematical bold nabla

USV	L	S	E	P	D	Macro	Description
U+1D6FB	∇	∇	∇	∇	∇	\mitnabla	mathematical italic nabla
U+1D735	∇	∇	∇	∇	∇	\mbfitnabla	mathematical bold italic nabla
U+1D76F	∇	∇	∇	∇	∇	\mbfsansnabla	mathematical sans-serif bold nabla
U+1D7A9	∇	∇	∇	∇	∇	\mbfitsansnabla	mathematical sans-serif bold italic nabla
U+1D7CA	F					\mbfDigamma	mathematical bold capital digamma
U+1D7CB	F					\mbfdigamma	mathematical bold small digamma