

## Math symbols defined by LaTeX package «mathabx»

No.	Text	Math	Macro	Category	Requirements	Comments
00302	$\hat{x}$	$(\hat{x})$	<code>\hat</code>	mathaccent		# \widehat (amssymb), circumflex accent
0030A	$\mathring{x}$	$\mathring{x}$	<code>\mathring</code>	mathaccent	amssymb	= \ring (yhmath), ring
02033	"	"	<code>\second</code>	mathord	mathabx	DOUBLE PRIME or second, not superscripted
02034	"	"	<code>\third</code>	mathord	mathabx	TRIPLE PRIME (not superscripted)
02057	"	"	<code>\fourth</code>	mathord	mathabx	QUADRUPLE PRIME, not superscripted
02118	$\wp$	$\wp$	<code>\wp</code>	mathalpha	amssymb	weierstrass p
02132	$\Finv$	$\Finv$	<code>\Finv</code>	mathord	amssymb	TURNED CAPITAL F
02141	$\Game$	$(\Game)$		mathord		# \Game (amssymb), TURNED SANS-SERIF CAPITAL G (amssymb has mirrored G)
02196	$\nwarrow$	$\nwarrow$	<code>\nwarrow</code>	mathrel	amssymb	nw pointing arrow
0219A	$\nleftarrow$	$\nleftarrow$	<code>\nleftarrow</code>	mathrel	amssymb	not left arrow
0219B	$\nrightarrow$	$\nrightarrow$	<code>\nrightarrow</code>	mathrel	amssymb	not right arrow
021AB	$\looparrowleft$	$\looparrowleft$	<code>\looparrowleft</code>	mathrel	amssymb	left arrow-looped
021AC	$\looparrowright$	$\looparrowright$	<code>\looparrowright</code>	mathrel	amssymb	right arrow-looped
021AD	$\leftrightsquigarrow$	$\leftrightsquigarrow$	<code>\leftrightsquigarrow</code>	mathrel	amssymb	left and right arr-wavy
021AE	$\nleftrightarrow$	$\nleftrightarrow$	<code>\nleftrightarrow</code>	mathrel	amssymb	not left and right arrow
021B0	$\Uparrow$	$\Uparrow$	<code>\Lsh</code>	mathrel	amssymb	a: UPWARDS ARROW WITH TIP LEFTWARDS
021B1	$\Rparrow$	$\Rparrow$	<code>\Rsh</code>	mathrel	amssymb	a: UPWARDS ARROW WITH TIP RIGHTWARDS
021B2	$\downdownarrows$	$\downdownarrows$	<code>\dlsh</code>	mathrel	mathabx	left down angled arrow
021B3	$\drsh$	$\drsh$	<code>\drsh</code>	mathrel	mathabx	right down angled arrow
021B6	$\curvearrowleft$	$\curvearrowleft$	<code>\curvearrowleft</code>	mathrel	amssymb fourier	left curved arrow
021B7	$\curvearrowright$	$\curvearrowright$	<code>\curvearrowright</code>	mathrel	amssymb fourier	right curved arrow
021BA	$\circlearrowleft$	$\circlearrowleft$	<code>\circlearrowleft</code>	mathord	amssymb	= \leftturn (wasysym), ANTICLOCKWISE OPEN CIRCLE ARROW
021BB	$\circlearrowright$	$\circlearrowright$	<code>\circlearrowright</code>	mathord	amssymb	= \rightturn (wasysym), CLOCKWISE OPEN CIRCLE ARROW
021BE	$\upharpoonright$	$\upharpoonright$	<code>\upharpoonright</code>	mathrel	amssymb	= \restriction (amssymb), = \upharpoonrightup (wrisym), a: up harpoon-right
021BF	$\upharpoonleft$	$\upharpoonleft$	<code>\upharpoonleft</code>	mathrel	amssymb	= \upharpoonleftup (wrisym), up harpoon-left
021C2	$\downharpoonright$	$\downharpoonright$	<code>\downharpoonright</code>	mathrel	amssymb	= \upharpoonrightdown (wrisym), down harpoon-right
021C3	$\downharpoonleft$	$\downharpoonleft$	<code>\downharpoonleft</code>	mathrel	amssymb	= \upharpoonleftdown (wrisym), down harpoon-left
021C4	$\rightleftarrows$	$\rightleftarrows$	<code>\rightleftarrows</code>	mathrel	amssymb	= \rightleftarrow (wrisym), right arrow over left arrow
021C5	$\updownarrows$	$\updownarrows$	<code>\updownarrows</code>	mathrel	mathabx	= \uparrowdownarrow (wrisym), up arrow, down arrow
021C6	$\leftrightarrows$	$\leftrightarrows$	<code>\leftrightarrows</code>	mathrel	amssymb	= \leftrightarrow (wrisym), left arrow over right arrow
021C7	$\leftleftarrows$	$\leftleftarrows$	<code>\leftleftarrows</code>	mathrel	amssymb fourier	two left arrows
021C8	$\rightrightarrows$	$\rightrightarrows$	<code>\rightrightarrows</code>	mathrel	amssymb	two up arrows
021C9	$\rightleftarrows$	$\rightleftarrows$	<code>\rightleftarrows</code>	mathrel	amssymb fourier	two right arrows
021CA	$\downdownarrows$	$\downdownarrows$	<code>\downdownarrows</code>	mathrel	amssymb	two down arrows
021CB	$\leftrightharpoons$	$\leftrightharpoons$	<code>\leftrightharpoons</code>	mathrel	amssymb	= \reversible (wrisym), left harpoon over right
021CD	$\nLeftarrow$	$\nLeftarrow$	<code>\nLeftarrow</code>	mathrel	amssymb	not implied by

No.	Text	Math	Macro	Category	Requirements	Comments
021CE	$\Leftrightarrow$	$\Leftrightarrow$	<code>\nLeftrightarrow</code>	mathrel	amssymb	not left and right double arrows
021CF	$\Rightarrow$	$\Rightarrow$	<code>\nRightarrow</code>	mathrel	amssymb	not implies
021DC	$\Leftarrow$	$\Leftarrow$	<code>\leftsquigarrow</code>	mathrel	mathabx txfonts	LEFTWARDS SQUIGGLE ARROW
021DD	$\rightarrow$	$\rightarrow$	<code>\rightsquigarrow</code>	mathrel	amssymb	RIGHTWARDS SQUIGGLE ARROW
021F5	$\Downarrow$	$\Downarrow$	<code>\downuparrows</code>	mathrel	mathabx	= <code>\downarrowuparrow</code> (wrisym), DOWNWARDS ARROW LEFTWARDS OF UPWARDS ARROW
02201	$\complement$	$\complement$	<code>\complement</code>	mathord	amssymb fourier	COMPLEMENT sign
02204	$\nexists$	$\nexists$	<code>\nexists</code>	mathord	amssymb fourier	= <code>\nexi</code> (oz), negated exists
0220C	$\nexists$	$\nexists$	<code>\nni</code>	mathrel	wrisym	= <code>\notni</code> (txfonts), = <code>\notowner</code> (mathabx), = <code>\notowns</code> (fourier), negated contains, variant
02214	$\dot{+}$	$\dot{+}$	<code>\dotplus</code>	mathbin	amssymb	plus sign, dot above
02221	$\sphericalangle$	$\sphericalangle$	<code>\measuredangle</code>	mathord	amssymb wrisym	MEASURED ANGLE
02222	$\sphericalangle$	$\sphericalangle$	<code>\sphericalangle</code>	mathord	amssymb wrisym	SPHERICAL ANGLE
02227	$\wedge$	$\wedge$	<code>\wedge</code>	mathbin	amssymb	= <code>\land</code> , b: LOGICAL AND
02234	$\therefore$	$\therefore$	<code>\therefore</code>	mathord	amssymb wrisym	= <code>\wasytherefore</code> (wasysym), THEREFORE
02235	$\because$	$\because$	<code>\because</code>	mathord	amssymb wrisym	BECAUSE
02240	$\wr$	$\wr$	<code>\wr</code>	mathbin	amssymb	WREATH PRODUCT
02241	$\nsim$	$\nsim$	<code>\nsim</code>	mathrel	amssymb wrisym	not similar
02247	$\ncong$	$\ncong$	<code>\ncong</code>	mathrel	amssymb wrisym	not congruent with
02251	$\doteq$	$\doteq$	<code>\Doteq</code>	mathrel	amssymb	= <code>\doteqdot</code> (amssymb), <code>/doteq r</code> : equals, even dots
02252	$\fallingdotseq$	$\fallingdotseq$	<code>\fallingdotseq</code>	mathrel	amssymb	equals, falling dots
02253	$\risingdotseq$	$\risingdotseq$	<code>\risingdotseq</code>	mathrel	amssymb	equals, rising dots
02254	$\coloneqq$	$\coloneqq$	<code>\coloneq</code>	mathrel	mathabx -txfonts	= <code>\coloneqq</code> (txfonts), = <code>\SetDelayed</code> (wrisym), # := colon, equals
02255	$\equiv$	$\equiv$	<code>\eqcolon</code>	mathrel	mathabx -txfonts	= <code>\eqqcolon</code> (txfonts), # =:, equals, colon
02256	$\equiv$	$\equiv$	<code>\eqcirc</code>	mathrel	amssymb	circle on equals sign
02257	$\equiv$	$\equiv$	<code>\circeq</code>	mathrel	amssymb	circle, equals
02259	$\corresponds$	$\corresponds$	<code>\corresponds</code>	mathrel	mathabx	= <code>\sdef</code> (oz), t <code>\Corresponds</code> (marvosym), corresponds to (wedge over equals)
0225C	$\triangleq$	$\triangleq$	<code>\triangleq</code>	mathrel	amssymb	= <code>\varsdef</code> (oz), triangle, equals
02266	$\leqq$	$\leqq$	<code>\leqq</code>	mathrel	amssymb	less, double equals
02267	$\geqq$	$\geqq$	<code>\geqq</code>	mathrel	amssymb	greater, double equals
02268	$\leqneqq$	$\leqneqq$	<code>\leqq</code>	mathrel	amssymb	less, not double equals
02269	$\gneqq$	$\gneqq$	<code>\gneqq</code>	mathrel	amssymb	greater, not double equals
0226C	$\asymp$	$\asymp$	<code>\between</code>	mathrel	amssymb	BETWEEN
0226D	$\asymp$	$\asymp$	<code>\notasympt</code>	mathrel	mathabx	= <code>\nasympt</code> (wrisym), not asymptotically equal to
0226E	$\nless$	$\nless$	<code>\nless</code>	mathrel	amssymb	NOT LESS-THAN
0226F	$\ngtr$	$\ngtr$	<code>\ngtr</code>	mathrel	amssymb	NOT GREATER-THAN
02270	$\nleq$	$\nleq$	<code>\nleq</code>	mathrel	amssymb wrisym	= <code>\nleqslant</code> (fourier), not less-than-or-equal
02271	$\ngeq$	$\ngeq$	<code>\ngeq</code>	mathrel	amssymb wrisym	= <code>\ngeqslant</code> (fourier), not greater-than-or-equal
02272	$\lesssim$	$\lesssim$	<code>\lesssim</code>	mathrel	amssymb	= <code>\apprle</code> (wasysym), = <code>\LessTilde</code> (wrisym), less, similar

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02273	$\gtrsim$	$\gtrsim$	<code>\gtrsim</code>	mathrel	amssymb	= <code>\apprge</code> (wasysym), = <code>\GreaterTilde</code> (wrisym), greater, similar
02276	$\lessgtr$	$\lessgtr$	<code>\lessgtr</code>	mathrel	amssymb	less, greater
02277	$\gtrless$	$\gtrless$	<code>\gtrless</code>	mathrel	amssymb	= <code>\GreaterLess</code> (wrisym), greater, less
0227C	$\preccurlyeq$	$\preccurlyeq$	<code>\preccurlyeq</code>	mathrel	amssymb	= <code>\PrecedesSlantEqual</code> (wrisym), precedes, curly equals
0227D	$\succcurlyeq$	$\succcurlyeq$	<code>\succcurlyeq</code>	mathrel	amssymb	= <code>\SucceedsSlantEqual</code> (wrisym), succeeds, curly equals
0227E	$\precsim$	$\precsim$	<code>\precsim</code>	mathrel	amssymb	= <code>\PrecedesTilde</code> (wrisym), precedes, similar
0227F	$\succsim$	$\succsim$	<code>\succsim</code>	mathrel	amssymb	= <code>\SucceedsTilde</code> (wrisym), succeeds, similar
02280	$\nprec$	$\nprec$	<code>\nprec</code>	mathrel	amssymb wrisym	not precedes
02281	$\nsucc$	$\nsucc$	<code>\nsucc</code>	mathrel	amssymb wrisym	not succeeds
02288	$\nsubseteq$	$\nsubseteq$	<code>\nsubseteq</code>	mathrel	amssymb wrisym	not subset, equals
02289	$\nsupseteq$	$\nsupseteq$	<code>\nsupseteq</code>	mathrel	amssymb wrisym	not superset, equals
0228A	$\subsetneq$	$\subsetneq$	<code>\subsetneq</code>	mathrel	amssymb	= <code>\varsubsetneq</code> (fourier), subset, not equals
0228B	$\supsetneq$	$\supsetneq$	<code>\supsetneq</code>	mathrel	amssymb	superset, not equals
0228F	$\sqsubset$	$\sqsubset$	<code>\sqsubset</code>	mathrel	amfonts	square subset
02290	$\sqsupset$	$\sqsupset$	<code>\sqsupset</code>	mathrel	amfonts	square superset
0229A	$\circledcirc$	$\circledcirc$	<code>\circledcirc</code>	mathbin	amssymb	small circle in circle
0229B	$\circledast$	$\circledast$	<code>\circledast</code>	mathbin	amssymb	asterisk in circle
0229D	$\circleddash$	$\circleddash$	<code>\circleddash</code>	mathbin	amssymb	hyphen in circle
0229E	$\boxplus$	$\boxplus$	<code>\boxplus</code>	mathbin	amssymb	plus sign in box
0229F	$\boxminus$	$\boxminus$	<code>\boxminus</code>	mathbin	amssymb	minus sign in box
022A0	$\boxtimes$	$\boxtimes$	<code>\boxtimes</code>	mathbin	amssymb	multiply sign in box
022A1	$\boxdot$	$\boxdot$	<code>\boxdot</code>	mathbin	amssymb stmaryrd	<code>/dotsquare</code> <code>/boxdot b</code> : small dot in box
022A3	$\dashv$	$\dashv$	<code>\dashv</code>	mathrel	amssymb	LEFT TACK, non-theorem, does not yield, (dash, vertical)
022A8	$\vDash$	$\vDash$	<code>\vDash</code>	mathrel	amssymb fourier	TRUE (vertical, double dash)
022A9	$\Vdash$	$\Vdash$	<code>\Vdash</code>	mathrel	amssymb	double vertical, dash
022AA	$\Vvdash$	$\Vvdash$	<code>\Vvdash</code>	mathrel	amssymb	triple vertical, dash
022AB	$\Vdash$	$\Vdash$	<code>\Vdash</code>	mathrel	mathabx txfonts	double vert, double dash
022AC	$\nvdash$	$\nvdash$	<code>\nvdash</code>	mathrel	amssymb	not vertical, dash
022AD	$\nvDash$	$\nvDash$	<code>\nvDash</code>	mathrel	amssymb fourier	not vertical, double dash
022AE	$\nVdash$	$\nVdash$	<code>\nVdash</code>	mathrel	amssymb	not double vertical, dash
022AF	$\nVDash$	$\nVDash$	<code>\nVDash</code>	mathrel	amssymb	not double vert, double dash
022B2	$\vartriangleleft$	$\vartriangleleft$	<code>\vartriangleleft</code>	mathrel	amssymb	left triangle, open, variant
022B3	$\vartriangleright$	$\vartriangleright$	<code>\vartriangleright</code>	mathrel	amssymb	right triangle, open, variant
022B4	$\trianglelefteq$	$\trianglelefteq$	<code>\trianglelefteq</code>	mathrel	amssymb	= <code>\unlhd</code> (wrisym), left triangle, equals
022B5	$\trianglerighteq$	$\trianglerighteq$	<code>\trianglerighteq</code>	mathrel	amssymb	= <code>\unrhd</code> (wrisym), right triangle, equals
022BB	$\veebar$	$\veebar$	<code>\veebar</code>	mathbin	amssymb	logical or, bar below (large vee); exclusive disjunction
022BC	$\barwedge$	$\barwedge$	<code>\barwedge</code>	mathbin	amssymb	logical NAND (bar over wedge)
022C7	$\divideontimes$	$\divideontimes$	<code>\divideontimes</code>	mathbin	amssymb	division on times

No.	Text	Math	Macro	Category	Requirements	Comments
022C9	$\times$	$\times$	<code>\ltimes</code>	mathbin	amssymb	times sign, left closed
022CA	$\times$	$\times$	<code>\rtimes</code>	mathbin	amssymb	times sign, right closed
022CB	$\times$	$\times$	<code>\leftthreetimes</code>	mathbin	amssymb	LEFT SEMIDIRECT PRODUCT
022CC	$\times$	$\times$	<code>\rightthreetimes</code>	mathbin	amssymb	RIGHT SEMIDIRECT PRODUCT
022CE	$\vee$	$\vee$	<code>\curlyvee</code>	mathbin	amssymb	CURLY LOGICAL OR
022CF	$\wedge$	$\wedge$	<code>\curlywedge</code>	mathbin	amssymb	CURLY LOGICAL AND
022D0	$\subseteq$	$\subseteq$	<code>\Subset</code>	mathrel	amssymb	DOUBLE SUBSET
022D1	$\supseteq$	$\supseteq$	<code>\Supset</code>	mathrel	amssymb	DOUBLE SUPERSET
022D2	$\cap$	$\cap$	<code>\Cap</code>	mathbin	amssymb	/cap /doublecap b: DOUBLE INTERSECTION
022D3	$\cup$	$\cup$	<code>\Cup</code>	mathbin	amssymb	/cup /doublecup b: DOUBLE UNION
022D4	$\pitchfork$	$\pitchfork$	<code>\pitchfork</code>	mathrel	amssymb	PITCHFORK
022D5	$\#$	$\#$	<code>\hash</code>	mathrel	mathabx	parallel, equal; equal or parallel
022D6	$\lessdot$	$\lessdot$	<code>\lessdot</code>	mathrel	amssymb	less than, with dot
022D7	$\gtrdot$	$\gtrdot$	<code>\gtrdot</code>	mathrel	amssymb	greater than, with dot
022DA	$\lesseqgtr$	$\lesseqgtr$	<code>\lesseqgtr</code>	mathrel	amssymb	less, equals, greater
022DB	$\gtreqless$	$\gtreqless$	<code>\gtreqless</code>	mathrel	amssymb	greater, equals, less
022DE	$\curlyeqprec$	$\curlyeqprec$	<code>\curlyeqprec</code>	mathrel	amssymb	curly equals, precedes
022DF	$\curlyeqsucc$	$\curlyeqsucc$	<code>\curlyeqsucc</code>	mathrel	amssymb	curly equals, succeeds
022E0	$\npreceq$	$\npreceq$	<code>\npreceq</code>	mathrel	amssymb wrisym	DOES NOT PRECEDE OR EQUAL
022E1	$\nsucceq$	$\nsucceq$	<code>\nsucceq</code>	mathrel	amssymb wrisym	not succeeds, curly equals
022E6	$\nlsim$	$\nlsim$	<code>\nlsim</code>	mathrel	amssymb	less, not similar
022E7	$\ngsim$	$\ngsim$	<code>\ngsim</code>	mathrel	amssymb	greater, not similar
022E8	$\precnsim$	$\precnsim$	<code>\precnsim</code>	mathrel	amssymb	precedes, not similar
022E9	$\succnsim$	$\succnsim$	<code>\succnsim</code>	mathrel	amssymb	succeeds, not similar
022EA	$\ntriangleleft$	$\ntriangleleft$	<code>\ntriangleleft</code>	mathrel	amssymb	= <code>\NotLeftTriangle</code> (wrisym), not left triangle
022EB	$\ntriangleright$	$\ntriangleright$	<code>\ntriangleright</code>	mathrel	amssymb	= <code>\NotRightTriangle</code> (wrisym), not right triangle
022EC	$\ntrianglelefteq$	$\ntrianglelefteq$	<code>\ntrianglelefteq</code>	mathrel	amssymb	= <code>\nunlhd</code> (wrisym), not left triangle, equals
022ED	$\ntrianglerighteq$	$\ntrianglerighteq$	<code>\ntrianglerighteq</code>	mathrel	amssymb	= <code>\nunrhd</code> (wrisym), not right triangle, equals
022F6	$\bar{\cap}$	$\bar{\cap}$	<code>\bar{\cap}</code>	mathrel	mathabx	ELEMENT OF WITH OVERBAR
02300	$\oslash$	$\oslash$	<code>\diameter</code>	mathord	mathabx	# <code>\varnothing</code> (amssymb), DIAMETER SIGN
02305	$\bar{\wedge}$	$\bar{\wedge}$		mathbin		# <code>\barwedge</code> (amssymb), PROJECTIVE (bar over small wedge) not nand
02306	$\overline{\wedge}$	$\overline{\wedge}$		mathbin		# <code>\doublebarwedge</code> (amssymb), PERSPECTIVE (double bar over small wedge)
0231C	$\ulcorner$	$\ulcorner$	<code>\ulcorner</code>	mathopen	amsfonts	upper left corner
0231D	$\urcorner$	$\urcorner$	<code>\urcorner</code>	mathclose	amsfonts	upper right corner
0231E	$\llcorner$	$\llcorner$	<code>\llcorner</code>	mathopen	amsfonts	lower left corner
0231F	$\lrcorner$	$\lrcorner$	<code>\lrcorner</code>	mathclose	amsfonts	lower right corner
023DC	$\overparen$	$\overparen$	<code>\overparen</code>	mathover	wrisym	= <code>\wideparen</code> (yhmath mathabx fourier), TOP PARENTHESIS (mathematical use)
025B4	$\blacktriangleup$	$\blacktriangleup$	<code>\blacktriangleup</code>	mathbin	mathabx	up triangle, filled

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025B5	$\triangle$	$\triangle$	<code>\smalltriangleup</code>	mathbin	mathabx	<code>#\vartriangle</code> (amssymb), small up triangle, open
025B8	$\blacktriangleright$	$\blacktriangleright$	<code>\blacktriangleright</code>	mathbin	mathabx -fourier	right triangle, filled
025B9	$\triangleright$	$\triangleright$	<code>\smalltriangleright</code>	mathbin	mathabx	<code>#\triangleright</code> (amssymb), right triangle, open
025BB	$\triangleright$	$(\triangleright)$		mathord		<code>#\triangleright</code> (mathabx), WHITE RIGHT-POINTING POINTER
025BE	$\blacktriangledown$	$\blacktriangledown$	<code>\blacktriangledown</code>	mathbin	mathabx	BLACK DOWN-POINTING SMALL TRIANGLE
025BF	$\triangledown$	$\triangledown$	<code>\smalltriangledown</code>	mathbin	mathabx	<code>#\triangledown</code> (amssymb), WHITE DOWN-POINTING SMALL TRIANGLE
025C2	$\blacktriangleleft$	$\blacktriangleleft$	<code>\blacktriangleleft</code>	mathbin	mathabx -fourier	left triangle, filled
025C3	$\triangleleft$	$\triangleleft$	<code>\smalltriangleleft</code>	mathbin	mathabx	<code>#\triangleleft</code> (amssymb), left triangle, open
025C5	$\triangleleft$	$(\triangleleft)$		mathord		<code>#\triangleleft</code> (mathabx), WHITE LEFT-POINTING POINTER
025CE	$\odot$	$(\odot)$		mathord		<code>#\circledcirc</code> (amssymb), BULLSEYE
025FB	$\square$	$\square$	<code>\square</code>	mathord	amssymb -fourier	WHITE MEDIUM SQUARE
02605	$\star$	$\star$	<code>\bigstar</code>	mathord	amssymb	star, filled
02609	$\odot$	$\odot$	<code>\Sun</code>	mathord	mathabx	SUN
0263D	$\smile$	$\smile$	<code>\rightmoon</code>	mathord	wasysym mathabx	FIRST QUARTER MOON
0263E	$\frown$	$\frown$	<code>\leftmoon</code>	mathord	wasysym mathabx	LAST QUARTER MOON
0263F	$\mercury$	$\mercury$	<code>\mercury</code>	mathord	wasysym	= <code>\Mercury</code> (mathabx), MERCURY
02640	$\venus$	$\venus$	<code>\female</code>	mathord	wasysym	= <code>\Venus</code> (mathabx), = <code>\girl</code> (mathabx), venus, female
02641	$\earth$	$\earth$	<code>\earth</code>	mathord	wasysym	= <code>\varEarth</code> (mathabx), EARTH
02642	$\mars$	$\mars$	<code>\male</code>	mathord	wasysym	= <code>\Mars</code> (mathabx), = <code>\boy</code> (mathabx), mars, male
02643	$\jupiter$	$\jupiter$	<code>\jupiter</code>	mathord	wasysym	= <code>\Jupiter</code> (mathabx), JUPITER
02644	$\saturn$	$\saturn$	<code>\saturn</code>	mathord	wasysym	= <code>\Saturn</code> (mathabx), SATURN
02645	$\uranus$	$\uranus$	<code>\uranus</code>	mathord	wasysym	= <code>\Uranus</code> (mathabx), URANUS
02646	$\neptune$	$\neptune$	<code>\neptune</code>	mathord	wasysym	= <code>\Neptune</code> (mathabx), NEPTUNE
02647	$\pluto$	$\pluto$	<code>\pluto</code>	mathord	wasysym	= <code>\Pluto</code> (mathabx), PLUTO
02648	$\aries$	$\aries$	<code>\aries</code>	mathord	wasysym	= <code>\Aries</code> (mathabx), ARIES
02649	$\taurus$	$\taurus$	<code>\taurus</code>	mathord	wasysym	= <code>\Taurus</code> (mathabx), TAURUS
0264A	$\gemini$	$\gemini$	<code>\gemini</code>	mathord	wasysym	= <code>\Gemini</code> (mathabx), GEMINI
0264C	$\leo$	$\leo$	<code>\leo</code>	mathord	wasysym	= <code>\Leo</code> (mathabx), LEO
0264E	$\libra$	$\libra$	<code>\libra</code>	mathord	wasysym	= <code>\Libra</code> (mathabx), LIBRA
0264F	$\scorpio$	$\scorpio$	<code>\scorpio</code>	mathord	wasysym	= <code>\Scorpio</code> (mathabx), SCORPIUS
0294A	$\leftbaruprightbar$	$\leftbaruprightbar$	<code>\leftbaruprightbar</code>	mathrel	mathabx	LEFT BARB UP RIGHT BARB DOWN HARPOON
0294B	$\leftbar$	$\leftbar$	<code>\leftbar</code>	mathrel	mathabx	LEFT BARB DOWN RIGHT BARB UP HARPOON
02962	$\leftbarup$	$\leftbarup$	<code>\leftbarup</code>	mathrel	mathabx	LEFTWARDS HARPOON WITH BARB UP ABOVE LEFTWARDS HARPOON WITH BARB DOWN
02963	$\upbar$	$\upbar$	<code>\upbar</code>	mathrel	mathabx	UPWARDS HARPOON WITH BARB LEFT BESIDE UPWARDS HARPOON WITH BARB RIGHT
02964	$\rightbarup$	$\rightbarup$	<code>\rightbarup</code>	mathrel	mathabx	RIGHTWARDS HARPOON WITH BARB UP ABOVE RIGHTWARDS HARPOON WITH BARB DOWN

No.	Text	Math	Macro	Category	Requirements	Comments
02965	$\Downarrow$	$\Downarrow$	<code>\downdownharpoons</code>	mathrel	mathabx	DOWNWARDS HARPOON WITH BARB LEFT BESIDE DOWNWARDS HARPOON WITH BARB RIGHT
0296A	$\Leftbarharpoon$	$\Leftbarharpoon$	<code>\leftbarharpoon</code>	mathrel	mathabx	LEFTWARDS HARPOON WITH BARB UP ABOVE LONG DASH
0296B	$\Leftbarharpoon$	$\Leftbarharpoon$	<code>\barlefttharpoon</code>	mathrel	mathabx	LEFTWARDS HARPOON WITH BARB DOWN BELOW LONG DASH
0296C	$\Rightbarharpoon$	$\Rightbarharpoon$	<code>\rightbarharpoon</code>	mathrel	mathabx	RIGHTWARDS HARPOON WITH BARB UP ABOVE LONG DASH
0296D	$\Rightbarharpoon$	$\Rightbarharpoon$	<code>\barriightharpoon</code>	mathrel	mathabx	RIGHTWARDS HARPOON WITH BARB DOWN BELOW LONG DASH
0296E	$\Updownharpoon$	$\Updownharpoon$	<code>\updownharpoons</code>	mathrel	mathabx	= <code>\upequilibrium</code> (wrisym), UPWARDS HARPOON WITH BARB LEFT BESIDE DOWNWARDS HARPOON WITH BARB RIGHT
0296F	$\Downupharpoon$	$\Downupharpoon$	<code>\downupharpoons</code>	mathrel	mathabx	= <code>\upreuequilibrium</code> (wrisym), DOWNWARDS HARPOON WITH BARB LEFT BESIDE UPWARDS HARPOON WITH BARB RIGHT
02A1D	$\Join$	$\Join$	<code>\Join</code>	mathop	amssymb	JOIN
02A5E	$\>\! $	$\>\! $	<code>\doublebarwedge</code>	mathbin	amssymb	LOGICAL AND WITH DOUBLE OVERBAR
02A7D	$\lesslant$	$\lesslant$	<code>\leqslant</code>	mathrel	amssymb fourier	LESS-THAN OR SLANTED EQUAL TO
02A7E	$\gtrlant$	$\gtrlant$	<code>\geqslant</code>	mathrel	amssymb fourier	GREATER-THAN OR SLANTED EQUAL TO
02A85	$\lessapprox$	$\lessapprox$	<code>\lessapprox</code>	mathrel	amssymb	LESS-THAN OR APPROXIMATE
02A86	$\gtrapprox$	$\gtrapprox$	<code>\gtrapprox</code>	mathrel	amssymb	GREATER-THAN OR APPROXIMATE
02A87	$\lneq$	$\lneq$	<code>\lneq</code>	mathrel	amssymb	LESS-THAN AND SINGLE-LINE NOT EQUAL TO
02A88	$\gneq$	$\gneq$	<code>\gneq</code>	mathrel	amssymb	GREATER-THAN AND SINGLE-LINE NOT EQUAL TO
02A89	$\lnapprox$	$\lnapprox$	<code>\lnapprox</code>	mathrel	amssymb	LESS-THAN AND NOT APPROXIMATE
02A8A	$\gnapprox$	$\gnapprox$	<code>\gnapprox</code>	mathrel	amssymb	GREATER-THAN AND NOT APPROXIMATE
02A8B	$\lesseqgtr$	$\lesseqgtr$	<code>\lesseqgtr</code>	mathrel	amssymb	LESS-THAN ABOVE DOUBLE-LINE EQUAL ABOVE GREATER-THAN
02A8C	$\gtreqless$	$\gtreqless$	<code>\gtreqless</code>	mathrel	amssymb	GREATER-THAN ABOVE DOUBLE-LINE EQUAL ABOVE LESS-THAN
02A95	$\leslantless$	$\leslantless$	<code>\leqslantless</code>	mathrel	amssymb	SLANTED EQUAL TO OR LESS-THAN
02A96	$\gtrslantgtr$	$\gtrslantgtr$	<code>\leqslantgtr</code>	mathrel	amssymb	SLANTED EQUAL TO OR GREATER-THAN
02AA1	$\lll$	$\lll$	<code>\NestedLessLess</code>	mathrel	wrisym	= <code>\lll</code> (mathabx -amssymb), DOUBLE NESTED LESS-THAN
02AA2	$\ggg$	$\ggg$	<code>\NestedGreaterGreater</code>	mathrel	wrisym	= <code>\ggg</code> (mathabx -amssymb), DOUBLE NESTED GREATER-THAN
02AB7	$\precapprox$	$\precapprox$	<code>\precapprox</code>	mathrel	amssymb	PRECEDES ABOVE ALMOST EQUAL TO
02AB8	$\succapprox$	$\succapprox$	<code>\succapprox</code>	mathrel	amssymb	SUCCEEDS ABOVE ALMOST EQUAL TO
02AB9	$\precnapprox$	$\precnapprox$	<code>\precnapprox</code>	mathrel	amssymb	PRECEDES ABOVE NOT ALMOST EQUAL TO
02ABA	$\succnapprox$	$\succnapprox$	<code>\succnapprox</code>	mathrel	amssymb	SUCCEEDS ABOVE NOT ALMOST EQUAL TO
02ABB	$\llcurly$	$\llcurly$	<code>\llcurly</code>	mathrel	mathabx	DOUBLE PRECEDES
02ABC	$\ggcurly$	$\ggcurly$	<code>\ggcurly</code>	mathrel	mathabx	DOUBLE SUCCEEDS
02AC5	$\subsetseq$	$\subsetseq$	<code>\subsetseq</code>	mathrel	amssymb	SUBSET OF ABOVE EQUALS SIGN
02AC6	$\supsetseq$	$\supsetseq$	<code>\supsetseq</code>	mathrel	amssymb	SUPERSET OF ABOVE EQUALS SIGN
02ACB	$\subsetneqq$	$\subsetneqq$	<code>\subsetneqq</code>	mathrel	amssymb	SUBSET OF ABOVE NOT EQUAL TO
02ACC	$\supsetneqq$	$\supsetneqq$	<code>\supsetneqq</code>	mathrel	amssymb	SUPERSET OF ABOVE NOT EQUAL TO
02B1D	$\cdot$	$\blacksquare$		mathord		# <code>\centerdot</code> (amssymb), <code>t\Squaredot</code> (marvosym), BLACK VERY SMALL SQUARE