Mathematical Operators

Range: 2200-22FF

This file contains an excerpt from the character code tables and list of character names for *The Unicode Standard, Version 10.0*

This file may be changed at any time without notice to reflect errata or other updates to the Unicode Standard. See http://www.unicode.org/errata/ for an up-to-date list of errata.

See http://www.unicode.org/charts/ for access to a complete list of the latest character code charts. See http://www.unicode.org/charts/PDF/Unicode-10.0/ for charts showing only the characters added in Unicode 10.0. See http://www.unicode.org/Public/10.0.0/charts/ for a complete archived file of character code charts for Unicode 10.0.

Disclaimer

These charts are provided as the online reference to the character contents of the Unicode Standard, Version 10.0 but do not provide all the information needed to fully support individual scripts using the Unicode Standard. For a complete understanding of the use of the characters contained in this file, please consult the appropriate sections of The Unicode Standard, Version 10.0, online at http://www.unicode.org/versions/Unicode10.0.0/, as well as Unicode Standard Annexes #9, #11, #14, #15, #24, #29, #31, #34, #38, #41, #42, #44, and #45, the other Unicode Technical Reports and Standards, and the Unicode Character Database, which are available online.

See http://www.unicode.org/ucd/ and http://www.unicode.org/reports/

A thorough understanding of the information contained in these additional sources is required for a successful implementation.

Fonts

The shapes of the reference glyphs used in these code charts are not prescriptive. Considerable variation is to be expected in actual fonts. The particular fonts used in these charts were provided to the Unicode Consortium by a number of different font designers, who own the rights to the fonts.

See http://www.unicode.org/charts/fonts.html for a list.

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See http://www.unicode.org/pending/pending.html and http://www.unicode.org/alloc/Pipeline.html.

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	220	221	222	223	224	225	226	227	228	229	22A	22B	22C	22D	22E	22F
0	2200	<u>II</u>	2220	∰ 2230	2240	2250	/ 2260	≰ 2270	≮	2290	22A0	3	22C0	22D0	≰ 22E0	22F0
1	C 2201	2211	4 2221	£ 2231	≁ 2241	2251	2261	≱	>	2291	22A1	22B1	22C1	3	≱ 22E1	22F1
2	<u>a</u>	2212	4	<i>∳</i> 2232	~	2252	# 2262	≥ 2272	2282	2292	22A2	22B2	22C2	22D2	⋢ 22E2	← 22F2
3	2203	2213	2223	∮	<u>~</u>	2253	2263	2273	2283	2293		22B3	22C3	U	⋣	22F3
4	∄	÷ 2214	}	2234	4	2254	<u><</u> 2264	≴ 2274	C	2294	T	<u>22B4</u>	♦ 22C4	1 22D4	— 22E4	E
5	Ø 2205	2215	2225	2235	<u>~</u>	=: 2255	<u>></u> 2265	2 275	7 2285	2295	<u></u>	<u>22B5</u>	• 22C5	# 22D5	7 22E5	<u>:</u>
6	<u>A</u>	2216	# 2226	• • 2236	¥ 2246	2256	<u>≤</u>	\$ 2276	2286	2296	-	○ 22B6	★ 22C6	≪ 22D6	₹ 22E6	22F6
7	V 2207	*	2227	2237	#	2257	<u>></u>	2277	2287	2297	‡	● — ○ 22B7	* 22C7	>> 22D7	> 22E7	⋶
8	2208	O 2218	2228	2238	≈	2258	∠ 2268	≸ 2278	<u>\$\psi_2288</u>	2298	22A8	— O	22C8	22D8	₹	<u></u>
9	∉ 2209	• 2219	2229	- :	%	2259	>	₹	⊉ 2289	2299	22A9	_ I _ 22B9	22C9	>>>> 22D9	≯ 22E9	22F9
Α	€	1	U 222A	223A	<u>≈</u>	Y 225A	≪ 226A	~	<u>Ç</u>	© 229A	11 -	T	22CA	<u>\</u> 22DA	Д 22EA	22FA
В	∋	3/ 221B	J 222B	∻ 223B	≋	<u>★</u>	>>> 226B	> 227B	⊋ 228B	229B	22AB	<u>V</u> 22BB	22CB	> 	≯ 22EB	⊃ 22FB
С	∌	4 221C	∭ 222C	~	224C	<u>△</u> 225C	Q 226C	≼	4	229C	} ←	7 22BC	Z2CC	22DC	Д 22EC	Đ
D	Э	X 221D	∭ 222D	223D	224D	<u>def</u>	**************************************	≥ 227D	⊍ 228D	229D	⊭ 22AD	V 22BD	<u>∽</u> 22CD	> 22DD	≱ 22ED	5
Ε	220E	221E	∮		\$ 224E	<u>m</u>	≮ 226E	∠ 227E	± 228E	229E	}	22BE	Y 22CE	₹ 22DE	• • • 22EE	5
F	220F	221F	∯ 2222F	2 23F	224F	? 225F	≯ 226F	≥ 227F	228F	229F	}	22BF	人 22CF	>> 22DF	• • • 22EF	22FF

Miscellaneous mathematical symbols Operators									
		•	-						
2200	A	FOR ALL	2212	_	MINUS SIGN				
0004	0	= universal quantifier			→ 002D - hyphen-minus				
2201	С	COMPLEMENT	0040		→ 2796 — heavy minus sign				
0000	_	→ 0297 c latin letter stretched c	2213	Ŧ	MINUS-OR-PLUS SIGN				
2202	д	PARTIAL DIFFERENTIAL			\rightarrow 00B1 \pm plus-minus sign				
2203	3	THERE EXISTS	2214	÷	DOT PLUS				
2224	_	= existential quantifier	2215	/	DIVISION SLASH				
2204	∄	THERE DOES NOT EXIST			 generic division operator 				
		≡ 2203 ∃ 0338 Ø			→ 002F / solidus				
2205	Ø	EMPTY SET			→ 2044/ fraction slash				
		= null set			→ 27CB / mathematical rising diagonal				
		 used in linguistics to indicate a null morpheme or phonological "zero" 	2216	\	SET MINUS				
		\rightarrow 00D8 \emptyset latin capital letter o with stroke			→ 005C\ reverse solidus				
		→ 2300 Ø diameter sign			→ 27CD \ mathematical falling diagonal				
		~ 2205 FE00 Ø zero with long diagonal stroke			→ 29F5 \ reverse solidus operator				
		overlay form	2217	*	ASTERISK OPERATOR				
2206	Δ	INCREMÉNT	0040		→ 002A * asterisk				
		= Laplace operator	2218	٥	RING OPERATOR				
		= forward difference			= composite function				
		= symmetric difference (in set theory)			= APL jot				
		• other symbols may also be used for symmetric			→ 00B0 ° degree sign				
		difference			→ 0970 ° devanagari abbreviation sign → 25E6 ° white bullet				
		$ ightarrow$ 0394 $oldsymbol{\Delta}$ greek capital letter delta							
		ightarrow 25B3 $ ightharpoonup$ white up-pointing triangle	2219		→ 10B39 ° avestan abbreviation mark				
2207	∇	NABLA	2219	•	BULLET OPERATOR				
		= backward difference			→ 00B7 · middle dot				
		= gradient, del			→ 2022 • bullet				
		• used for Laplacian operator (written with	2214	. /	→ 2024 . one dot leader				
		superscript 2)	221A		SQUARE ROOT = radical sign				
		$ ightarrow$ 25BD ∇ white down-pointing triangle			→ 2713 ✓ check mark				
<i>-</i> .									
Set m	emb	pership	221B	3/					
2208		ELEMENT OF	221B	$\sqrt[3]{}$	CUBE ROOT				
	€	•		.,	CUBE ROOT → 0606 ♥ arabic-indic cube root				
2208	€	ELEMENT OF	221B 221C	³ √ ⁴ √	CUBE ROOT → 0606 ♥ arabic-indic cube root FOURTH ROOT				
2208	€	ELEMENT OF NOT AN ELEMENT OF	221C	∜	CUBE ROOT → 0606 ★ arabic-indic cube root FOURTH ROOT → 0607 ★ arabic-indic fourth root				
2208 2209	€	ELEMENT OF NOT AN ELEMENT OF ≡ 2208 € 0338 Ø		∜	CUBE ROOT → 0606 ♥ arabic-indic cube root FOURTH ROOT → 0607 ♥ arabic-indic fourth root PROPORTIONAL TO				
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2208 2209 220A	€	ELEMENT OF NOT AN ELEMENT OF ≡ 2208 ∈ 0338 Ø SMALL ELEMENT OF • originates in math pi fonts; not the straight epsilon → 03F5 € greek lunate epsilon symbol	221C 221D	√ ∝	CUBE ROOT → 0606 ♥ arabic-indic cube root FOURTH ROOT → 0607 ♥ arabic-indic fourth root PROPORTIONAL TO				
2208 2209	€	ELEMENT OF NOT AN ELEMENT OF ≡ 2208 ∈ 0338 Ø SMALL ELEMENT OF • originates in math pi fonts; not the straight epsilon → 03F5 ∈ greek lunate epsilon symbol CONTAINS AS MEMBER	221C 221D Misce	√ ∝	CUBE ROOT → 0606 ♥ arabic-indic cube root FOURTH ROOT → 0607 ♥ arabic-indic fourth root PROPORTIONAL TO → 03B1 α greek small letter alpha				
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2208 2209 220A	€	ELEMENT OF NOT AN ELEMENT OF ≡ 2208 ∈ 0338 ≠ SMALL ELEMENT OF • originates in math pi fonts; not the straight epsilon → 03F5 ∈ greek lunate epsilon symbol CONTAINS AS MEMBER = such that DOES NOT CONTAIN AS MEMBER	221C 221D Misce 221E Angle	$^{\downarrow}$ $^{\downarrow}$ $^{\downarrow}$ $^{\odot}$ ellane $^{\odot}$ es	CUBE ROOT → 0606 ♥ arabic-indic cube root FOURTH ROOT → 0607 ♥ arabic-indic fourth root PROPORTIONAL TO → 03B1 α greek small letter alpha eous mathematical symbol INFINITY				
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2208 2209 220A 220B 220C 220D Misce 220E N-ary 220F	e ∉ e ⇒ ⇒ ⇒ sope ∏ III	ELEMENT OF NOT AN ELEMENT OF ≡ 2208 ∈ 0338 ≠ SMALL ELEMENT OF • originates in math pi fonts; not the straight epsilon → 03F5 ∈ greek lunate epsilon symbol CONTAINS AS MEMBER = such that DOES NOT CONTAIN AS MEMBER ≡ 220B ∋ 0338 ≠ SMALL CONTAINS AS MEMBER → 03F6 ∋ greek reversed lunate epsilon symbol eous mathematical symbol END OF PROOF = q.e.d. → 2023 ► triangular bullet → 25AE ■ black vertical rectangle erators N-ARY PRODUCT = product sign → 03A0 Π greek capital letter pi N-ARY COPRODUCT = coproduct sign	221C 221D Misce 221E Angle Other 221F 2220 2221 2222 Relati 2223	$^{\downarrow}$	CUBE ROOT → 0606 ★ arabic-indic cube root FOURTH ROOT → 0607 ★ arabic-indic fourth root PROPORTIONAL TO → 03B1 α greek small letter alpha cous mathematical symbol INFINITY e symbols are found at 299B-29AF. RIGHT ANGLE ANGLE → 299F ∠ acute angle MEASURED ANGLE SPHERICAL ANGLE = angle arc DIVIDES = such that = APL stile → 007C vertical line → 01C0 latin letter dental click DOES NOT DIVIDE ≡ 2223 0338 \$				
2208 2209 220A 220B 220C 220D Misce 220E N-ary 220F	e ∉ e ⇒ ⇒ ⇒ soperation II	ELEMENT OF NOT AN ELEMENT OF ≡ 2208 ∈ 0338 ≠ SMALL ELEMENT OF • originates in math pi fonts; not the straight epsilon → 03F5 ∈ greek lunate epsilon symbol CONTAINS AS MEMBER = such that DOES NOT CONTAIN AS MEMBER ≡ 2208 ∋ 0338 ≠ SMALL CONTAINS AS MEMBER → 03F6 ∋ greek reversed lunate epsilon symbol eous mathematical symbol END OF PROOF = q.e.d. → 2023 ► triangular bullet → 25AE ■ black vertical rectangle erators N-ARY PRODUCT = product sign → 03A0 Π greek capital letter pi N-ARY COPRODUCT = coproduct sign N-ARY SUMMATION	221C 221D Misce 221E Angle Other 221F 2220 2221 2222 Relati 2223	$^4\sqrt[4]{}$ $^{\circ}$ $^{\circ$	CUBE ROOT → 0606 % arabic-indic cube root FOURTH ROOT → 0607 % arabic-indic fourth root PROPORTIONAL TO → 03B1 α greek small letter alpha cous mathematical symbol INFINITY e symbols are found at 299B-29AF. RIGHT ANGLE ANGLE → 299F ∠ acute angle MEASURED ANGLE SPHERICAL ANGLE = angle arc DIVIDES = such that = APL stile → 007C vertical line → 01C0 latin letter dental click DOES NOT DIVIDE ≡ 2223 0338 ∮ PARALLEL TO				
2208 2209 220A 220B 220C 220D Misce 220E N-ary 220F	e ∉ e ⇒ ⇒ ⇒ sope ∏ III	ELEMENT OF NOT AN ELEMENT OF ≡ 2208 ∈ 0338 ≠ SMALL ELEMENT OF • originates in math pi fonts; not the straight epsilon → 03F5 ∈ greek lunate epsilon symbol CONTAINS AS MEMBER = such that DOES NOT CONTAIN AS MEMBER ≡ 2208 ∋ 0338 ≠ SMALL CONTAINS AS MEMBER → 03F6 ∋ greek reversed lunate epsilon symbol eous mathematical symbol END OF PROOF = q.e.d. → 2023 ► triangular bullet → 25AE ■ black vertical rectangle erators N-ARY PRODUCT = product sign → 03A0 Π greek capital letter pi N-ARY COPRODUCT = coproduct sign N-ARY SUMMATION = summation sign	221C 221D Misce 221E Angle Other 221F 2220 2221 2222 Relati 2223	$^{\downarrow}$	CUBE ROOT → 0606 % arabic-indic cube root FOURTH ROOT → 0607 % arabic-indic fourth root PROPORTIONAL TO → 03B1 α greek small letter alpha cous mathematical symbol INFINITY e symbols are found at 299B-29AF. RIGHT ANGLE ANGLE → 299F ∠ acute angle MEASURED ANGLE SPHERICAL ANGLE = angle arc DIVIDES = such that = APL stile → 007C vertical line → 01C0 latin letter dental click DOES NOT DIVIDE ≡ 2223 0338 ∮ PARALLEL TO → 01C1 latin letter lateral click				
2208 2209 220A 220B 220C 220D Misce 220E N-ary 220F	e ∉ e ⇒ ⇒ ⇒ sope ∏ III	ELEMENT OF NOT AN ELEMENT OF ≡ 2208 ∈ 0338 ≠ SMALL ELEMENT OF • originates in math pi fonts; not the straight epsilon → 03F5 ∈ greek lunate epsilon symbol CONTAINS AS MEMBER = such that DOES NOT CONTAIN AS MEMBER ≡ 2208 ∋ 0338 ≠ SMALL CONTAINS AS MEMBER ⇒ 03F6 ∋ greek reversed lunate epsilon symbol eous mathematical symbol END OF PROOF = q.e.d. → 2023 ► triangular bullet → 25AE ■ black vertical rectangle erators N-ARY PRODUCT = product sign → 03A0 Π greek capital letter pi N-ARY COPRODUCT = coproduct sign N-ARY SUMMATION = summation sign → 03A3 Σ greek capital letter sigma	221C 221D Misce 221E Angle Other 221F 2220 2221 2222 Relati 2223	$\begin{array}{c} \cdot \\ \downarrow \\ \times \\ \times$	CUBE ROOT → 0606 % arabic-indic cube root FOURTH ROOT → 0607 % arabic-indic fourth root PROPORTIONAL TO → 03B1 α greek small letter alpha cous mathematical symbol INFINITY e symbols are found at 299B-29AF. RIGHT ANGLE ANGLE → 299F ∠ acute angle MEASURED ANGLE SPHERICAL ANGLE = angle arc DIVIDES = such that = APL stile → 007C vertical line → 01C0 latin letter dental click DOES NOT DIVIDE ≡ 2223 0338 ∮ PARALLEL TO → 01C1 latin letter lateral click → 2016 double vertical line				
2208 2209 220A 220B 220C 220D Misce 220E N-ary 220F	e ∉ e ⇒ ⇒ ⇒ sope ∏ III	ELEMENT OF NOT AN ELEMENT OF ≡ 2208 ∈ 0338 ≠ SMALL ELEMENT OF • originates in math pi fonts; not the straight epsilon → 03F5 ∈ greek lunate epsilon symbol CONTAINS AS MEMBER = such that DOES NOT CONTAIN AS MEMBER ≡ 2208 ∋ 0338 ≠ SMALL CONTAINS AS MEMBER → 03F6 ∋ greek reversed lunate epsilon symbol eous mathematical symbol END OF PROOF = q.e.d. → 2023 ► triangular bullet → 25AE ■ black vertical rectangle erators N-ARY PRODUCT = product sign → 03A0 Π greek capital letter pi N-ARY COPRODUCT = coproduct sign N-ARY SUMMATION = summation sign	221C 221D Misce 221E Angle Other 221F 2220 2221 2222 Relati 2223	$^{\downarrow}$	CUBE ROOT → 0606 % arabic-indic cube root FOURTH ROOT → 0607 % arabic-indic fourth root PROPORTIONAL TO → 03B1 α greek small letter alpha eous mathematical symbol INFINITY e symbols are found at 299B-29AF. RIGHT ANGLE ANGLE → 299F ∠ acute angle MEASURED ANGLE SPHERICAL ANGLE = angle arc DIVIDES = such that = APL stile → 007C vertical line → 01C0 latin letter dental click DOES NOT DIVIDE ≡ 2223 0338 ∮ PARALLEL TO → 01C1 latin letter lateral click → 2016 double vertical line NOT PARALLEL TO				
2208 2209 220A 220B 220C 220D Misce 220E N-ary 220F	e ∉ e ⇒ ⇒ ⇒ sope ∏ III	ELEMENT OF NOT AN ELEMENT OF ≡ 2208 ∈ 0338 ≠ SMALL ELEMENT OF • originates in math pi fonts; not the straight epsilon → 03F5 ∈ greek lunate epsilon symbol CONTAINS AS MEMBER = such that DOES NOT CONTAIN AS MEMBER ≡ 2208 ∋ 0338 ≠ SMALL CONTAINS AS MEMBER ⇒ 03F6 ∋ greek reversed lunate epsilon symbol eous mathematical symbol END OF PROOF = q.e.d. → 2023 ► triangular bullet → 25AE ■ black vertical rectangle erators N-ARY PRODUCT = product sign → 03A0 Π greek capital letter pi N-ARY COPRODUCT = coproduct sign N-ARY SUMMATION = summation sign → 03A3 Σ greek capital letter sigma	221C 221D Misce 221E Angle Other 221F 2220 2221 2222 Relati 2223	$\begin{array}{c} \cdot \\ \downarrow \\ \times \\ \times$	CUBE ROOT → 0606 % arabic-indic cube root FOURTH ROOT → 0607 % arabic-indic fourth root PROPORTIONAL TO → 03B1 α greek small letter alpha cous mathematical symbol INFINITY e symbols are found at 299B-29AF. RIGHT ANGLE ANGLE → 299F ∠ acute angle MEASURED ANGLE SPHERICAL ANGLE = angle arc DIVIDES = such that = APL stile → 007C vertical line → 01C0 latin letter dental click DOES NOT DIVIDE ≡ 2223 0338 ∮ PARALLEL TO → 01C1 latin letter lateral click → 2016 double vertical line				

l ogical ar	nd set operators	223C	~	TILDE OPERATOR
2227 A	LOGICAL AND	2200		= varies with (proportional to)
2221 /\	= wedge, conjunction			= difference between
	→ 22C0 \(\hat{\chi}\) n-ary logical and			= similar to
	→ 2303 ^ up arrowhead			= not
2228 ∨	LOGICAL OR			= cycle = APL tilde
	= vee, disjunction			\rightarrow 007E \sim tilde
	\rightarrow 22C1 \bigvee n-ary logical or			→ 00AC ¬ not sign
	→ 2304 v down arrowhead			→ 02DC ~ small tilde
2229 ∩	INTERSECTION	223D	\sim	
	= cap, hat → 22C2 ∩ n-ary intersection			= lazy S
	\sim 2229 FE00 Ω with serifs			 reversed tilde and lazy S are glyph variants
222A ∪	UNION	223E	2	INVERTED LAZY S
	= cup			= most positive
	→ 22C3 U n-ary union		ellan	eous mathematical symbol
	\sim 222A FE00 \cup with serifs	223F	\sim	
Integrals				= alternating current
222B ∫	INTEGRAL	Opera		
	\rightarrow 0283 \int latin small letter esh	2240	ζ	WREATH PRODUCT
222C ∬	DOUBLE INTEGRAL	Relat	ions	
222D ///	≈ 222B ∫ 222B ∫ TRIPLE INTEGRAL	2241	~	NOT TILDE
222D <i>]]]</i>	→ 2A0C /// quadruple integral operator			≡ 223C ~ 0338 Ø
	≈ 222B \int 222B \int 222B \int	2242	≂	MINUS TILDE
222E ∮	CONTOUR INTEGRAL	2243	~	•
<i>J</i>	→ 2A15 ∮ integral around a point operator	2244	$\not\simeq$	NOT ASYMPTOTICALLY EQUAL TO
222F ∯	SURFACÉ INTEGRAL	2245	~	≡ 2243 ≃ 0338 Ø APPROXIMATELY EQUAL TO
•	≈ 222E ∮ 222E ∮	2245	= ≆	
2230 ∰	VOLUME INTEGRAL	2240	7	TO
	\approx 222E \oint 222E \oint 222E \oint	2247	≇	NEITHER APPROXIMATELY NOR ACTUALLY
	CLOCKWISE INTEGRAL		,	EQUAL TO
	CLOCKWISE CONTOUR INTEGRAL			≡ 2245 ≅ 0338 Ø
2233 ∮	ANTICLOCKWISE CONTOUR INTEGRAL	2248	\approx	
	 clockwise or anticlockwise arrows do not reverse during layout mirroring 	2249	~	= asymptotic to
Missellan		2249	≉	NOT ALMOST EQUAL TO ≡ 2248 ≈ 0338 Ø
	eous mathematical symbols	224A	≊	
2234	THEREFORE → 26EC •• historic site	224B	≋	TRIPLE TILDE
2235 ::	BECAUSE	224C		ALL EQUAL TO
	BECAUSE			• reversed tilde and lazy S are glyph variants
Relations	2.7	224D	\simeq	
2236 :	RATIO	224E	≎	GEOMETRICALLY EQUIVALENT TO
	 preferred to 003A: for denotation of division or scale in mathematical use 	224F	~	DIFFERENCE BETWEEN
	→ 003A: colon	2250	≐	
2237 ::	PROPORTION	2251	÷	GEOMETRICALLY EQUAL TO
Operator		2252	≒	APPROXIMATELY EQUAL TO OR THE IMAGE OF = nearly equals
2238 ÷	DOT MINUS	2253	≓	IMAGE OF OR APPROXIMATELY EQUAL TO
2200	= saturating subtraction	2254	:=	COLON EQUALS
	• sometimes claimed as notation for symmetric	2255	=:	EQUALS COLON
	set difference, but 2206 Δ is preferred	2256	0	RING IN EQUAL TO
Relation		2257	<u>•</u>	RING EQUAL TO
2239 -:	EXCESS		_	= approximately equal to
Operator		2258	≘ ^	CORRESPONDS TO
223A ∺	CEOMETRIC PROPORTION	2259		ESTIMATES - corresponds to
	GEOMETRIC PROPORTION	225A	$\underline{\underline{\vee}}$	= corresponds to EQUIANGULAR TO
Relations		225B	<u>*</u>	
223B ∻	HOMOTHETIC	225C	≜	DELTA EQUAL TO
	ightarrow 2A6B $ ightharpoonup$ tilde operator with rising dots			= equiangular
				= equal to by definition

	3.6				
225D		EQUAL TO BY DEFINITION	2280	⊀	DOES NOT PRECEDE
225E	<u>m</u>				≡ 227A < 0338 Ø
225F	?	QUESTIONED EQUAL TO	2281	*	DOES NOT SUCCEED
2260	#				≡ 227B ≻ 0338 Ø
	,	→ 003D = equals sign	2282	\subset	
		→ 01C2 ‡ latin letter alveolar click		_	= included in set
					→ 2E26 ⊂ left sideways u bracket
0004		≡ 003D = 0338 Ø	2283	_	SUPERSET OF
2261	=	IDENTICAL TO	2203	\supset	= includes in set
2262	≢				
		≡ 2261 ≡ 0338 Ø	0004		→ 2E27 ⊃ right sideways u bracket
2263	≡	STRICTLY EQUIVALENT TO	2284	⊄	NOT A SUBSET OF
2264	≤	LESS-THAN OR EQUAL TO			≡ 2282 ⊂ 0338 ∮
2265		GREATER-THAN OR EQUAL TO	2285	$\not\supset$	NOT A SUPERSET OF
2266		LESS-THAN OVER EQUAL TO			≡ 2283 ⊃ 0338 Ø
2267	=	GREATER-THAN OVER EQUAL TO	2286	⊆	SUBSET OF OR EQUAL TO
2268	> ∨		2287	\supseteq	
2200	≠	LESS-THAN BUT NOT EQUAL TO	2288		NEITHER A SUBSET OF NOR EQUAL TO
0000	_	~ 2268 FE00 ≨ with vertical stroke	2200	⊭	= 2286 ⊆ 0338 Ø
2269	≩	GREATER-THAN BUT NOT EQUAL TO	2200	→	
		~ 2269 FE00 ≩ with vertical stroke	2289	⊉	NEITHER A SUPERSET OF NOR EQUAL TO
226A	~	MUCH LESS-THAN			≡ 2287 ⊇ 0338 ¢
		→ 00AB « left-pointing double angle quotation	228A	⊊	SUBSET OF WITH NOT EQUAL TO
		mark			~ 228A FE00 ⊊ with stroke through bottom
226B	>>	MUCH GREATER-THAN			members
		→ 00BB » right-pointing double angle	228B	⊋	SUPERSET OF WITH NOT EQUAL TO
		quotation mark			~ 228B FE00 ⊋ with stroke through bottom
226C	Ŏ	BETWEEN			members '
	X	= plaintiff, quantic	Opera	+~~	
226D	*	<u>i</u>	-		
2200	1	≡ 224D × 0338 Ø	228C	⊌	MULTISET
2265	4		228D	⊍	
226E	≮				\rightarrow 2A03 \bigcup n-ary union operator with dot
		≡ 003C < 0338 ¢			\rightarrow 2A40 \cap intersection with dot
226F	\not	NOT GREATER-THAN	228E	⊎	MULTISET UNION
	*	≡ 003E > 0338 Ø	228E	⊎	MULTISET UNION
2266	≯	≡ 003E > 0338 Ø	228E	⊎	MULTISET UNION = z notation bag addition
	,	≡ 003E > 0338 Ø			MULTISET UNION
	,	≡ 003E > 0338 Ø NEITHER LESS-THAN NOR EQUAL TO	Relati	ons	MULTISET UNION = z notation bag addition → 2A04 Ӈ n-ary union operator with plus
2270	*	\equiv 003E > 0338 \emptyset NEITHER LESS-THAN NOR EQUAL TO \equiv 2264 ≤ 0338 \emptyset NEITHER GREATER-THAN NOR EQUAL TO	Relati 228F	ons	MULTISET UNION = z notation bag addition → 2A04 Ӈ n-ary union operator with plus SQUARE IMAGE OF
2270 2271	* ≰ ≱	\equiv 003E > 0338 \emptyset NEITHER LESS-THAN NOR EQUAL TO \equiv 2264 ≤ 0338 \emptyset NEITHER GREATER-THAN NOR EQUAL TO \equiv 2265 ≥ 0338 \emptyset	Relati	ons	MULTISET UNION = z notation bag addition → 2A04 Ӈ n-ary union operator with plus
2270	*	\equiv 003E > 0338 \emptyset NEITHER LESS-THAN NOR EQUAL TO \equiv 2264 ≤ 0338 \emptyset NEITHER GREATER-THAN NOR EQUAL TO \equiv 2265 ≥ 0338 \emptyset LESS-THAN OR EQUIVALENT TO	Relati 228F	ons	MULTISET UNION = z notation bag addition → 2A04 Ӈ n-ary union operator with plus SQUARE IMAGE OF
2270 2271	* ≰ ≱	\equiv 003E > 0338 \emptyset NEITHER LESS-THAN NOR EQUAL TO \equiv 2264 ≤ 0338 \emptyset NEITHER GREATER-THAN NOR EQUAL TO \equiv 2265 ≥ 0338 \emptyset LESS-THAN OR EQUIVALENT TO \sim 2272 FE00 \lesssim following the slant of the lower	Relati 228F 2290	ons	MULTISET UNION = z notation bag addition → 2A04 Ӈ n-ary union operator with plus SQUARE IMAGE OF SQUARE ORIGINAL OF SQUARE IMAGE OF OR EQUAL TO
2270 2271 2272	<i>*</i>	\equiv 003E > 0338 \emptyset NEITHER LESS-THAN NOR EQUAL TO \equiv 2264 ≤ 0338 \emptyset NEITHER GREATER-THAN NOR EQUAL TO \equiv 2265 ≥ 0338 \emptyset LESS-THAN OR EQUIVALENT TO \sim 2272 FE00 \lesssim following the slant of the lower leg	Relati 228F 2290 2291 2292	ons	MULTISET UNION = z notation bag addition → 2A04 Ӈ n-ary union operator with plus SQUARE IMAGE OF SQUARE ORIGINAL OF SQUARE IMAGE OF OR EQUAL TO SQUARE ORIGINAL OF OR EQUAL TO
2270 2271	* ≰ ≱	\equiv 003E > 0338 \emptyset NEITHER LESS-THAN NOR EQUAL TO \equiv 2264 ≤ 0338 \emptyset NEITHER GREATER-THAN NOR EQUAL TO \equiv 2265 ≥ 0338 \emptyset LESS-THAN OR EQUIVALENT TO \sim 2272 FE00 \leqslant following the slant of the lower leg GREATER-THAN OR EQUIVALENT TO	Relati 228F 2290 2291 2292 Opera	ons	MULTISET UNION = z notation bag addition → 2A04 Ӈ n-ary union operator with plus SQUARE IMAGE OF SQUARE ORIGINAL OF SQUARE IMAGE OF OR EQUAL TO SQUARE ORIGINAL OF OR EQUAL TO
2270 2271 2272	<i>*</i>	■ 003E > 0338 Ø NEITHER LESS-THAN NOR EQUAL TO ■ 2264 ≤ 0338 Ø NEITHER GREATER-THAN NOR EQUAL TO ■ 2265 ≥ 0338 Ø LESS-THAN OR EQUIVALENT TO ~ 2272 FE00 ≤ following the slant of the lower leg GREATER-THAN OR EQUIVALENT TO ~ 2273 FE00 ≥ following the slant of the lower	Relati 228F 2290 2291 2292	ons	MULTISET UNION = z notation bag addition → 2A04 Ӈ n-ary union operator with plus SQUARE IMAGE OF SQUARE ORIGINAL OF SQUARE IMAGE OF OR EQUAL TO SQUARE ORIGINAL OF OR EQUAL TO SQUARE ORIGINAL OF OR EQUAL TO
2270 2271 2272 2273	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	■ 003E > 0338 Ø NEITHER LESS-THAN NOR EQUAL TO ■ 2264 ≤ 0338 Ø NEITHER GREATER-THAN NOR EQUAL TO ■ 2265 ≥ 0338 Ø LESS-THAN OR EQUIVALENT TO ~ 2272 FE00 ≤ following the slant of the lower leg GREATER-THAN OR EQUIVALENT TO ~ 2273 FE00 ≥ following the slant of the lower leg	Relati 228F 2290 2291 2292 Opera	ons	MULTISET UNION = z notation bag addition → 2A04 Ӈ n-ary union operator with plus SQUARE IMAGE OF SQUARE ORIGINAL OF SQUARE IMAGE OF OR EQUAL TO SQUARE ORIGINAL OF OR EQUAL TO
2270 2271 2272	<i>*</i>	■ 003E > 0338 Ø NEITHER LESS-THAN NOR EQUAL TO ■ 2264 ≤ 0338 Ø NEITHER GREATER-THAN NOR EQUAL TO ■ 2265 ≥ 0338 Ø LESS-THAN OR EQUIVALENT TO ~ 2272 FE00 ≤ following the slant of the lower leg GREATER-THAN OR EQUIVALENT TO ~ 2273 FE00 ≥ following the slant of the lower leg NEITHER LESS-THAN NOR EQUIVALENT TO	Relati 228F 2290 2291 2292 Opera	ons	MULTISET UNION = z notation bag addition → 2A04 Ӈ n-ary union operator with plus SQUARE IMAGE OF SQUARE ORIGINAL OF SQUARE IMAGE OF OR EQUAL TO SQUARE ORIGINAL OF OR EQUAL TO SQUARE ORIGINAL OF OR EQUAL TO
2270 2271 2272 2273 2274	* ≠ ≠ ×	■ 003E > 0338 Ø NEITHER LESS-THAN NOR EQUAL TO ■ 2264 ≤ 0338 Ø NEITHER GREATER-THAN NOR EQUAL TO ■ 2265 ≥ 0338 Ø LESS-THAN OR EQUIVALENT TO ~ 2272 FE00 ≤ following the slant of the lower leg GREATER-THAN OR EQUIVALENT TO ~ 2273 FE00 ≥ following the slant of the lower leg NEITHER LESS-THAN NOR EQUIVALENT TO ■ 2272 ≤ 0338 Ø	Relati 228F 2290 2291 2292 Opera	ons	MULTISET UNION = z notation bag addition → 2A04 Ӈ n-ary union operator with plus SQUARE IMAGE OF SQUARE ORIGINAL OF SQUARE IMAGE OF OR EQUAL TO SQUARE ORIGINAL OF OR EQUAL TO SQUARE CAP → 2A05 ∏ n-ary square intersection operator
2270 2271 2272 2273	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	■ 003E > 0338 Ø NEITHER LESS-THAN NOR EQUAL TO ■ 2264 ≤ 0338 Ø NEITHER GREATER-THAN NOR EQUAL TO ■ 2265 ≥ 0338 Ø LESS-THAN OR EQUIVALENT TO ~ 2272 FE00 ≤ following the slant of the lower leg GREATER-THAN OR EQUIVALENT TO ~ 2273 FE00 ≥ following the slant of the lower leg NEITHER LESS-THAN NOR EQUIVALENT TO ■ 2272 ≲ 0338 Ø NEITHER GREATER-THAN NOR EQUIVALENT TO	Relati 228F 2290 2291 2292 Opera 2293	ons	MULTISET UNION = z notation bag addition → 2A04 Ӈ n-ary union operator with plus SQUARE IMAGE OF SQUARE ORIGINAL OF SQUARE IMAGE OF OR EQUAL TO SQUARE ORIGINAL OF OR EQUAL TO SQUARE CAP → 2A05 ∏ n-ary square intersection operator ~ 2293 FE00 □ with serifs SQUARE CUP
2270 2271 2272 2273 2274 2275	* * * * * * * *	■ 003E > 0338 Ø NEITHER LESS-THAN NOR EQUAL TO ■ 2264 ≤ 0338 Ø NEITHER GREATER-THAN NOR EQUAL TO ■ 2265 ≥ 0338 Ø LESS-THAN OR EQUIVALENT TO ~ 2272 FE00 ≤ following the slant of the lower leg GREATER-THAN OR EQUIVALENT TO ~ 2273 FE00 ≥ following the slant of the lower leg NEITHER LESS-THAN NOR EQUIVALENT TO ■ 2272 ≤ 0338 Ø NEITHER GREATER-THAN NOR EQUIVALENT TO ■ 2273 ≥ 0338 Ø	Relati 228F 2290 2291 2292 Opera 2293	ons	MULTISET UNION = z notation bag addition → 2A04 Ӈ n-ary union operator with plus SQUARE IMAGE OF SQUARE ORIGINAL OF SQUARE IMAGE OF OR EQUAL TO SQUARE ORIGINAL OF OR EQUAL TO SQUARE CAP → 2A05 ∏ n-ary square intersection operator ~ 2293 FE00 □ with serifs SQUARE CUP → 2A06 ∐ n-ary square union operator
2270 2271 2272 2273 2274 2275 2276	*	■ 003E > 0338 Ø NEITHER LESS-THAN NOR EQUAL TO ■ 2264 ≤ 0338 Ø NEITHER GREATER-THAN NOR EQUAL TO ■ 2265 ≥ 0338 Ø LESS-THAN OR EQUIVALENT TO ~ 2272 FE00 ≤ following the slant of the lower leg GREATER-THAN OR EQUIVALENT TO ~ 2273 FE00 ≥ following the slant of the lower leg NEITHER LESS-THAN NOR EQUIVALENT TO ■ 2272 ≤ 0338 Ø NEITHER GREATER-THAN NOR EQUIVALENT TO ■ 2273 ≥ 0338 Ø LESS-THAN OR GREATER-THAN	Relati 228F 2290 2291 2292 Opera 2293	ons	MULTISET UNION = z notation bag addition → 2A04 Ӈ n-ary union operator with plus SQUARE IMAGE OF SQUARE ORIGINAL OF SQUARE IMAGE OF OR EQUAL TO SQUARE ORIGINAL OF OR EQUAL TO SQUARE CAP → 2A05 ∏ n-ary square intersection operator ~ 2293 FE00 □ with serifs SQUARE CUP → 2A06 ∐ n-ary square union operator ~ 2294 FE00 ⊔ with serifs
2270 2271 2272 2273 2274 2275 2276 2277	*	■ 003E > 0338 Ø NEITHER LESS-THAN NOR EQUAL TO ■ 2264 ≤ 0338 Ø NEITHER GREATER-THAN NOR EQUAL TO ■ 2265 ≥ 0338 Ø LESS-THAN OR EQUIVALENT TO ~ 2272 FE00 ≤ following the slant of the lower leg GREATER-THAN OR EQUIVALENT TO ~ 2273 FE00 ≥ following the slant of the lower leg NEITHER LESS-THAN NOR EQUIVALENT TO ■ 2272 ≤ 0338 Ø NEITHER GREATER-THAN NOR EQUIVALENT TO ■ 2273 ≥ 0338 Ø	Relati 228F 2290 2291 2292 Opera 2293	ons	MULTISET UNION = z notation bag addition → 2A04 Ӈ n-ary union operator with plus SQUARE IMAGE OF SQUARE ORIGINAL OF SQUARE IMAGE OF OR EQUAL TO SQUARE ORIGINAL OF OR EQUAL TO SQUARE ORIGINAL OF OR EQUAL TO SQUARE CAP → 2A05 ☐ n-ary square intersection operator ~ 2293 FE00 ☐ with serifs SQUARE CUP → 2A06 ∐ n-ary square union operator ~ 2294 FE00 ☐ with serifs CIRCLED PLUS
2270 2271 2272 2273 2274 2275 2276	*	■ 003E > 0338 Ø NEITHER LESS-THAN NOR EQUAL TO ■ 2264 ≤ 0338 Ø NEITHER GREATER-THAN NOR EQUAL TO ■ 2265 ≥ 0338 Ø LESS-THAN OR EQUIVALENT TO ~ 2272 FE00 ≤ following the slant of the lower leg GREATER-THAN OR EQUIVALENT TO ~ 2273 FE00 ≥ following the slant of the lower leg NEITHER LESS-THAN NOR EQUIVALENT TO ■ 2272 ≤ 0338 Ø NEITHER GREATER-THAN NOR EQUIVALENT TO ■ 2273 ≥ 0338 Ø LESS-THAN OR GREATER-THAN	Relati 228F 2290 2291 2292 Opera 2293	ons	MULTISET UNION = z notation bag addition → 2A04 → n-ary union operator with plus SQUARE IMAGE OF SQUARE ORIGINAL OF SQUARE IMAGE OF OR EQUAL TO SQUARE ORIGINAL OF OR EQUAL TO SQUARE CAP → 2A05 ☐ n-ary square intersection operator ~ 2293 FE00 ☐ with serifs SQUARE CUP → 2A06 ☐ n-ary square union operator ~ 2294 FE00 ☐ with serifs CIRCLED PLUS = direct sum
2270 2271 2272 2273 2274 2275 2276 2277	* * * * * * * * * * * * * * * * * * * *	■ 003E > 0338 Ø NEITHER LESS-THAN NOR EQUAL TO ■ 2264 ≤ 0338 Ø NEITHER GREATER-THAN NOR EQUAL TO ■ 2265 ≥ 0338 Ø LESS-THAN OR EQUIVALENT TO ~ 2272 FE00 ≤ following the slant of the lower leg GREATER-THAN OR EQUIVALENT TO ~ 2273 FE00 ≥ following the slant of the lower leg NEITHER LESS-THAN NOR EQUIVALENT TO ■ 2272 ≤ 0338 Ø NEITHER GREATER-THAN NOR EQUIVALENT TO ■ 2273 ≥ 0338 Ø LESS-THAN OR GREATER-THAN GREATER-THAN OR LESS-THAN	Relati 228F 2290 2291 2292 Opera 2293	ons	MULTISET UNION = z notation bag addition → 2A04 Ӈ n-ary union operator with plus SQUARE IMAGE OF SQUARE ORIGINAL OF SQUARE IMAGE OF OR EQUAL TO SQUARE ORIGINAL OF OR EQUAL TO SQUARE CAP → 2A05 ∏ n-ary square intersection operator ~ 2293 FE00 □ with serifs SQUARE CUP → 2A06 ∐ n-ary square union operator ~ 2294 FE00 ப with serifs CIRCLED PLUS = direct sum = vector pointing into page
2270 2271 2272 2273 2274 2275 2276 2277 2278	* * * * * * * * * * * * * * * * * * * *	■ 003E > 0338 Ø NEITHER LESS-THAN NOR EQUAL TO ■ 2264 ≤ 0338 Ø NEITHER GREATER-THAN NOR EQUAL TO ■ 2265 ≥ 0338 Ø LESS-THAN OR EQUIVALENT TO ~ 2272 FE00 ≤ following the slant of the lower leg GREATER-THAN OR EQUIVALENT TO ~ 2273 FE00 ≥ following the slant of the lower leg NEITHER LESS-THAN NOR EQUIVALENT TO ■ 2272 ≤ 0338 Ø NEITHER GREATER-THAN NOR EQUIVALENT TO ■ 2273 ≥ 0338 Ø LESS-THAN OR GREATER-THAN GREATER-THAN OR LESS-THAN NEITHER LESS-THAN NOR GREATER-THAN ■ 2276 ≤ 0338 Ø	Relati 228F 2290 2291 2292 Opera 2293	ons	MULTISET UNION = z notation bag addition → 2A04 → n-ary union operator with plus SQUARE IMAGE OF SQUARE ORIGINAL OF SQUARE IMAGE OF OR EQUAL TO SQUARE ORIGINAL OF OR EQUAL TO SQUARE CAP → 2A05 ☐ n-ary square intersection operator ~ 2293 FE00 ☐ with serifs SQUARE CUP → 2A06 ☐ n-ary square union operator ~ 2294 FE00 ☐ with serifs CIRCLED PLUS = direct sum = vector pointing into page → 2A01 ⊕ n-ary circled plus operator
2270 2271 2272 2273 2274 2275 2276 2277	* * * * * * * * * * * * * * * * * * * *	■ 003E > 0338 Ø NEITHER LESS-THAN NOR EQUAL TO ■ 2264 ≤ 0338 Ø NEITHER GREATER-THAN NOR EQUAL TO ■ 2265 ≥ 0338 Ø LESS-THAN OR EQUIVALENT TO ~ 2272 FE00 ≤ following the slant of the lower leg GREATER-THAN OR EQUIVALENT TO ~ 2273 FE00 ≥ following the slant of the lower leg NEITHER LESS-THAN NOR EQUIVALENT TO ■ 2272 ≤ 0338 Ø NEITHER GREATER-THAN NOR EQUIVALENT TO ■ 2273 ≥ 0338 Ø LESS-THAN OR GREATER-THAN GREATER-THAN OR LESS-THAN NEITHER LESS-THAN NOR GREATER-THAN ■ 2276 ≤ 0338 Ø NEITHER GREATER-THAN NOR GREATER-THAN	Relati 228F 2290 2291 2292 Opera 2293	ons	MULTISET UNION = z notation bag addition → 2A04
2270 2271 2272 2273 2274 2275 2276 2277 2278 2279		\equiv 003E > 0338	Relati 228F 2290 2291 2292 Opera 2293 2294 2295	ators	MULTISET UNION = z notation bag addition → 2A04
2270 2271 2272 2273 2274 2275 2276 2277 2278		■ 003E > 0338 Ø NEITHER LESS-THAN NOR EQUAL TO ■ 2264 ≤ 0338 Ø NEITHER GREATER-THAN NOR EQUAL TO ■ 2265 ≥ 0338 Ø LESS-THAN OR EQUIVALENT TO ~ 2272 FE00 ≤ following the slant of the lower leg GREATER-THAN OR EQUIVALENT TO ~ 2273 FE00 ≥ following the slant of the lower leg NEITHER LESS-THAN NOR EQUIVALENT TO = 2272 ≤ 0338 Ø NEITHER GREATER-THAN NOR EQUIVALENT TO = 2273 ≥ 0338 Ø LESS-THAN OR GREATER-THAN GREATER-THAN OR LESS-THAN NEITHER LESS-THAN NOR GREATER-THAN = 2276 ≤ 0338 Ø NEITHER GREATER-THAN NOR LESS-THAN = 2277 ≥ 0338 Ø NEITHER GREATER-THAN NOR LESS-THAN = 2277 ≥ 0338 Ø PRECEDES	Relati 228F 2290 2291 2292 Opera 2293	ators	MULTISET UNION = z notation bag addition → 2A04
2270 2271 2272 2273 2274 2275 2276 2277 2278 2279		■ 003E > 0338 Ø NEITHER LESS-THAN NOR EQUAL TO ■ 2264 ≤ 0338 Ø NEITHER GREATER-THAN NOR EQUAL TO ■ 2265 ≥ 0338 Ø LESS-THAN OR EQUIVALENT TO ~ 2272 FE00 ≤ following the slant of the lower leg GREATER-THAN OR EQUIVALENT TO ~ 2273 FE00 ≥ following the slant of the lower leg NEITHER LESS-THAN NOR EQUIVALENT TO = 2273 FE00 ≥ following the slant of the lower leg NEITHER LESS-THAN NOR EQUIVALENT TO = 2272 ≤ 0338 Ø NEITHER GREATER-THAN NOR EQUIVALENT TO = 2273 ≥ 0338 Ø LESS-THAN OR GREATER-THAN GREATER-THAN OR LESS-THAN NEITHER LESS-THAN NOR GREATER-THAN = 2276 ≤ 0338 Ø NEITHER GREATER-THAN NOR LESS-THAN = 2277 ≥ 0338 Ø PRECEDES = lower rank than	Relati 228F 2290 2291 2292 Opera 2293 2294 2295	ators	MULTISET UNION = z notation bag addition → 2A04
2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 227A	. ≠ ≠ ×	■ 003E > 0338 Ø NEITHER LESS-THAN NOR EQUAL TO ■ 2264 ≤ 0338 Ø NEITHER GREATER-THAN NOR EQUAL TO ■ 2265 ≥ 0338 Ø LESS-THAN OR EQUIVALENT TO ~ 2272 FE00 ≤ following the slant of the lower leg GREATER-THAN OR EQUIVALENT TO ~ 2273 FE00 ≥ following the slant of the lower leg NEITHER LESS-THAN NOR EQUIVALENT TO = 2273 FE00 ≥ following the slant of the lower leg NEITHER LESS-THAN NOR EQUIVALENT TO = 2272 ≤ 0338 Ø NEITHER GREATER-THAN NOR EQUIVALENT TO = 2273 ≥ 0338 Ø LESS-THAN OR GREATER-THAN GREATER-THAN OR LESS-THAN NEITHER LESS-THAN NOR GREATER-THAN = 2276 ≤ 0338 Ø NEITHER GREATER-THAN NOR LESS-THAN = 2277 ≥ 0338 Ø PRECEDES = lower rank than → 2280 ⊰ precedes under relation	Relati 228F 2290 2291 2292 Opera 2293 2294 2295	ators	MULTISET UNION = z notation bag addition → 2A04
2270 2271 2272 2273 2274 2275 2276 2277 2278 2279		■ 003E > 0338 Ø NEITHER LESS-THAN NOR EQUAL TO ■ 2264 ≤ 0338 Ø NEITHER GREATER-THAN NOR EQUAL TO ■ 2265 ≥ 0338 Ø LESS-THAN OR EQUIVALENT TO ~ 2272 FE00 ≤ following the slant of the lower leg GREATER-THAN OR EQUIVALENT TO ~ 2273 FE00 ≥ following the slant of the lower leg NEITHER LESS-THAN NOR EQUIVALENT TO = 2273 FE00 ≥ following the slant of the lower leg NEITHER LESS-THAN NOR EQUIVALENT TO = 2272 ≤ 0338 Ø NEITHER GREATER-THAN NOR EQUIVALENT TO = 2273 ≥ 0338 Ø LESS-THAN OR GREATER-THAN GREATER-THAN OR LESS-THAN NEITHER LESS-THAN NOR GREATER-THAN = 2276 ≤ 0338 Ø NEITHER GREATER-THAN NOR LESS-THAN = 2277 ≥ 0338 Ø PRECEDES = lower rank than → 2280 ⊰ precedes under relation SUCCEEDS	Relati 228F 2290 2291 2292 Opera 2293 2294 2295	ators	MULTISET UNION = z notation bag addition → 2A04
2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 227A	. ≠ ≠ ×	■ 003E > 0338 Ø NEITHER LESS-THAN NOR EQUAL TO ■ 2264 ≤ 0338 Ø NEITHER GREATER-THAN NOR EQUAL TO ■ 2265 ≥ 0338 Ø LESS-THAN OR EQUIVALENT TO ~ 2272 FE00 ≤ following the slant of the lower leg GREATER-THAN OR EQUIVALENT TO ~ 2273 FE00 ≥ following the slant of the lower leg NEITHER LESS-THAN NOR EQUIVALENT TO = 2273 FE00 ≥ following the slant of the lower leg NEITHER LESS-THAN NOR EQUIVALENT TO = 2272 ≤ 0338 Ø NEITHER GREATER-THAN NOR EQUIVALENT TO = 2273 ≥ 0338 Ø LESS-THAN OR GREATER-THAN GREATER-THAN OR LESS-THAN NEITHER LESS-THAN NOR GREATER-THAN = 2276 ≤ 0338 Ø NEITHER GREATER-THAN NOR LESS-THAN = 2277 ≥ 0338 Ø PRECEDES = lower rank than → 2280 ⊰ precedes under relation SUCCEEDS = higher rank than	Relati 228F 2290 2291 2292 Opera 2293 2294 2295	ators	MULTISET UNION = z notation bag addition → 2A04
2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 227A 227B		■ 003E > 0338 Ø NEITHER LESS-THAN NOR EQUAL TO ■ 2264 ≤ 0338 Ø NEITHER GREATER-THAN NOR EQUAL TO ■ 2265 ≥ 0338 Ø LESS-THAN OR EQUIVALENT TO ~ 2272 FE00 ≤ following the slant of the lower leg GREATER-THAN OR EQUIVALENT TO ~ 2273 FE00 ≥ following the slant of the lower leg NEITHER LESS-THAN NOR EQUIVALENT TO = 2273 FE00 ≥ following the slant of the lower leg NEITHER LESS-THAN NOR EQUIVALENT TO = 2272 ≤ 0338 Ø NEITHER GREATER-THAN NOR EQUIVALENT TO = 2273 ≥ 0338 Ø LESS-THAN OR GREATER-THAN GREATER-THAN OR LESS-THAN NEITHER LESS-THAN NOR GREATER-THAN = 2276 ≤ 0338 Ø NEITHER GREATER-THAN NOR LESS-THAN = 2277 ≥ 0338 Ø PRECEDES = lower rank than → 2280 ⊰ precedes under relation SUCCEEDS = higher rank than → 2281 ⊱ succeeds under relation	Relati 228F 2290 2291 2292 Opera 2293 2294 2295	ators	MULTISET UNION = z notation bag addition → 2A04
2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 227A 227B		= 003E > 0338	Relati 228F 2290 2291 2292 Opera 2293 2294 2295	ators	MULTISET UNION = z notation bag addition → 2A04
2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 227A 227B 227C 227D		■ 003E > 0338 Ø NEITHER LESS-THAN NOR EQUAL TO ■ 2264 ≤ 0338 Ø NEITHER GREATER-THAN NOR EQUAL TO ■ 2265 ≥ 0338 Ø LESS-THAN OR EQUIVALENT TO ~ 2272 FE00 ≤ following the slant of the lower leg GREATER-THAN OR EQUIVALENT TO ~ 2273 FE00 ≥ following the slant of the lower leg NEITHER LESS-THAN NOR EQUIVALENT TO = 2273 FE00 ≥ following the slant of the lower leg NEITHER LESS-THAN NOR EQUIVALENT TO = 2272 ≤ 0338 Ø NEITHER GREATER-THAN NOR EQUIVALENT TO = 2273 ≥ 0338 Ø LESS-THAN OR GREATER-THAN GREATER-THAN OR LESS-THAN NEITHER LESS-THAN NOR GREATER-THAN = 2276 ≤ 0338 Ø NEITHER GREATER-THAN NOR LESS-THAN = 2277 ≥ 0338 Ø PRECEDES = lower rank than → 2280 ⊰ precedes under relation SUCCEEDS = higher rank than → 2281 ⊱ succeeds under relation PRECEDES OR EQUAL TO SUCCEEDS OR EQUAL TO	Relati 228F 2290 2291 2292 Opera 2293 2294 2295	ators	MULTISET UNION = z notation bag addition → 2A04
2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 227A 227B 227C 227D 227E		■ 003E > 0338 NEITHER LESS-THAN NOR EQUAL TO ■ 2264 ≤ 0338 NEITHER GREATER-THAN NOR EQUAL TO ■ 2265 ≥ 0338 LESS-THAN OR EQUIVALENT TO ~ 2272 FE00 following the slant of the lower leg GREATER-THAN OR EQUIVALENT TO ~ 2273 FE00 following the slant of the lower leg NEITHER LESS-THAN NOR EQUIVALENT TO = 2273 FE00 following the slant of the lower leg NEITHER LESS-THAN NOR EQUIVALENT TO = 2272 following the slant of the lower leg NEITHER GREATER-THAN NOR EQUIVALENT TO = 2272 following the slant of the lower leg NEITHER GREATER-THAN NOR EQUIVALENT TO = 2273 following the slant of the lower leg NEITHER GREATER-THAN NOR EQUIVALENT TO = 2276 following the slant of the lower leg NEITHER GREATER-THAN NOR EQUIVALENT TO = 2277 following the slant of the lower leg NEITHER GREATER-THAN NOR EQUIVALENT TO = 2273 following the slant of the lower leg NEITHER GREATER-THAN NOR EQUIVALENT TO = 2273 following the slant of the lower leg NEITHER GREATER-THAN NOR EQUIVALENT TO = 2273 following the slant of the lower leg NEITHER GREATER-THAN NOR EQUIVALENT TO = 2273 following the slant of the lower leg NEITHER GREATER-THAN NOR EQUIVALENT TO = 2273 following the slant of the lower leg NEITHER GREATER-THAN NOR EQUIVALENT TO	Relati 228F 2290 2291 2292 Opera 2293 2294 2295	ators	MULTISET UNION = z notation bag addition → 2A04
2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 227A 227B 227C 227D		■ 003E > 0338	Relati 228F 2290 2291 2292 Opera 2293 2294 2295	ators	MULTISET UNION = z notation bag addition → 2A04

≡ 22A8 ⊨ 0338 Ø

2297	\otimes	CIRCLED TIMES	22AE	⊮	DOES NOT FORCE
		= tensor product			≡ 22A9 I⊢ 0338 Ø
		= vector pointing into page	22AF	⊯	NEGATED DOUBLE VERTICAL BAR DOUBLE
		→ 26D2 ⊗ circled crossing lanes			RIGHT TURNSTILE
		→ 2A02 🚫 n-ary circled times operator			≡ 22AB I⊨ 0338 Ø
		→ 2BBE ⊗ circled x	22B0	⊰	PRECEDES UNDER RELATION
		~ 2297 FE00 ⊗ with white rim			→ 227A ≺ precedes
2298	0	CIRCLED DIVISION SLASH	22B1	ح	
2299	\odot	CIRCLED DOT OPERATOR			→ 227B > succeeds
		= direct product	22B2	⊲	NORMAL SUBGROUP OF
		= vector pointing out of page → 0298 ① latin letter bilabial click			→ 25C5 white left-pointing pointer
		\rightarrow 2609 \odot sun	22B3	\triangleright	CONTAINS AS NORMAL SUBGROUP
		\rightarrow 2A00 \odot n-ary circled dot operator	000.4		→ 25BB white right-pointing pointer
229A	0	CIRCLED RING OPERATOR	22B4	⊴	NORMAL SUBGROUP OF OR EQUAL TO
22071	O	→ 233E ② apl functional symbol circle jot	22B5	⊵	CONTAINS AS NORMAL SUBGROUP OR EQUAL TO
		→ 25CE bullseye	22B6	⊶	ORIGINAL OF
229B	(*)	CIRCLED ASTERISK OPERATOR	22B0 22B7		IMAGE OF
	0	→ 235F 🏵 apl functional symbol circle star	22B8	~	MULTIMAP
229C		CIRCLED EQUALS	22B0 22B9	~ ⊹	HERMITIAN CONJUGATE MATRIX
	Ŭ	~ 229C FE00 ⊜ with equal sign touching the		-	
		circle	Oper		
229D		CIRCLED DASH	22BA	T	INTERCALATE
229E		SQUARED PLUS	22BB	\vee	XOR
229F	\Box	SQUARED MINUS	0000	_	→ 26BA ¥ semisextile
22A0	\boxtimes	SQUARED TIMES	22BC	⊼	NAND
		\rightarrow 2612 \boxtimes ballot box with x			→ 2305 ★ projective
		→ 26DD X squared saltire	22BD	∇	→ 26BB π quincunx
00 4 4	_	→ 1F771 ☑ alchemical symbol for month			NOR
22A1	⊡	SQUARED DOT OPERATOR		llan	eous mathematical symbols
22A2	⊢	→ 1F755 alchemical symbol for urine RIGHT TACK	22BE	₽	RIGHT ANGLE WITH ARC
	'	= turnstile	22BF	\triangle	RIGHT TRIANGLE
		= proves, implies, yields	N-ary	ope	rators
		= proves, implies, yields = reducible	N-ary 22C0	ope	rators N-ARY LOGICAL AND
22A3	⊣	= reducible LEFT TACK	-	-	
22A3	⊣	= reducible LEFT TACK = reverse turnstile	-	-	N-ARY LOGICAL AND
		= reducible LEFT TACK = reverse turnstile = non-theorem, does not yield	-	-	N-ARY LOGICAL AND • also used to denote the universal quantifier → 2227 ∧ logical and
		= reducible LEFT TACK = reverse turnstile	22C0	٨	N-ARY LOGICAL AND • also used to denote the universal quantifier → 2227 ∧ logical and N-ARY LOGICAL OR • also used to denote the existential quantifier
		= reducible LEFT TACK = reverse turnstile = non-theorem, does not yield	22C0	٨	N-ARY LOGICAL AND • also used to denote the universal quantifier → 2227 ∧ logical and N-ARY LOGICAL OR • also used to denote the existential quantifier → 2228 ∨ logical or
Misce	llan	= reducible LEFT TACK = reverse turnstile = non-theorem, does not yield eous mathematical symbols DOWN TACK = top	22C0	٨	N-ARY LOGICAL AND • also used to denote the universal quantifier → 2227 ∧ logical and N-ARY LOGICAL OR • also used to denote the existential quantifier → 2228 ∨ logical or N-ARY INTERSECTION
Misce	llan	= reducible LEFT TACK = reverse turnstile = non-theorem, does not yield eous mathematical symbols DOWN TACK = top → 2E06 T raised interpolation marker	22C0 22C1	\(\)	N-ARY LOGICAL AND • also used to denote the universal quantifier → 2227 ∧ logical and N-ARY LOGICAL OR • also used to denote the existential quantifier → 2228 ∨ logical or N-ARY INTERSECTION = z notation generalised intersection
Misce	llan	= reducible LEFT TACK = reverse turnstile = non-theorem, does not yield eous mathematical symbols DOWN TACK = top → 2E06 ^T raised interpolation marker → 1F768 T alchemical symbol for crucible-4	22C0 22C1 22C2	\(\)\(\)\(\)\(\)	N-ARY LOGICAL AND • also used to denote the universal quantifier → 2227 ∧ logical and N-ARY LOGICAL OR • also used to denote the existential quantifier → 2228 ∨ logical or N-ARY INTERSECTION = z notation generalised intersection → 2229 ∩ intersection
Misce	llan	= reducible LEFT TACK = reverse turnstile = non-theorem, does not yield eous mathematical symbols DOWN TACK = top → 2E06 ^T raised interpolation marker → 1F768 T alchemical symbol for crucible-4 UP TACK	22C0 22C1	\(\)	N-ARY LOGICAL AND • also used to denote the universal quantifier → 2227 ∧ logical and N-ARY LOGICAL OR • also used to denote the existential quantifier → 2228 ∨ logical or N-ARY INTERSECTION = z notation generalised intersection → 2229 ∩ intersection N-ARY UNION
Misce 22A4	llan∉ ⊤	= reducible LEFT TACK = reverse turnstile = non-theorem, does not yield eous mathematical symbols DOWN TACK = top → 2E06 ^T raised interpolation marker → 1F768 T alchemical symbol for crucible-4 UP TACK = base, bottom	22C0 22C1 22C2	\(\)\(\)\(\)\(\)	N-ARY LOGICAL AND • also used to denote the universal quantifier → 2227 ∧ logical and N-ARY LOGICAL OR • also used to denote the existential quantifier → 2228 ∨ logical or N-ARY INTERSECTION = z notation generalised intersection → 2229 ∩ intersection N-ARY UNION = z notation generalised union
Misce 22A4	llan∉ ⊤	= reducible LEFT TACK = reverse turnstile = non-theorem, does not yield eous mathematical symbols DOWN TACK = top → 2E06 ^T raised interpolation marker → 1F768 T alchemical symbol for crucible-4 UP TACK	22C0 22C1 22C2 22C3	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	N-ARY LOGICAL AND • also used to denote the universal quantifier → 2227 ∧ logical and N-ARY LOGICAL OR • also used to denote the existential quantifier → 2228 ∨ logical or N-ARY INTERSECTION = z notation generalised intersection → 2229 ∩ intersection N-ARY UNION = z notation generalised union → 2224 ∪ union
Misce 22A4	lland ⊤ ⊥	= reducible LEFT TACK = reverse turnstile = non-theorem, does not yield eous mathematical symbols DOWN TACK = top → 2E06 ^T raised interpolation marker → 1F768 T alchemical symbol for crucible-4 UP TACK = base, bottom	22C0 22C1 22C2 22C3 Opera	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	N-ARY LOGICAL AND • also used to denote the universal quantifier → 2227 ∧ logical and N-ARY LOGICAL OR • also used to denote the existential quantifier → 2228 ∨ logical or N-ARY INTERSECTION = z notation generalised intersection → 2229 ∩ intersection N-ARY UNION = z notation generalised union → 222A ∪ union
Misce 22A4 22A5	lland ⊤ ⊥	= reducible LEFT TACK = reverse turnstile = non-theorem, does not yield eous mathematical symbols DOWN TACK = top → 2E06 T raised interpolation marker → 1F768 T alchemical symbol for crucible-4 UP TACK = base, bottom → 27C2 ⊥ perpendicular ASSERTION	22C0 22C1 22C2 22C3	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	N-ARY LOGICAL AND • also used to denote the universal quantifier → 2227 ∧ logical and N-ARY LOGICAL OR • also used to denote the existential quantifier → 2228 ∨ logical or N-ARY INTERSECTION = z notation generalised intersection → 2229 ∩ intersection N-ARY UNION = z notation generalised union → 222A ∪ union ■ DIAMOND OPERATOR
Misce 22A4 22A5 Relati 22A6	lland ⊤ ⊥ ions ⊦	= reducible LEFT TACK = reverse turnstile = non-theorem, does not yield eous mathematical symbols DOWN TACK = top → 2E06 T raised interpolation marker → 1F768 T alchemical symbol for crucible-4 UP TACK = base, bottom → 27C2 ⊥ perpendicular ASSERTION = reduces to	22C0 22C1 22C2 22C3 Opera	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	N-ARY LOGICAL AND • also used to denote the universal quantifier → 2227 ∧ logical and N-ARY LOGICAL OR • also used to denote the existential quantifier → 2228 ∨ logical or N-ARY INTERSECTION = z notation generalised intersection → 2229 ∩ intersection N-ARY UNION = z notation generalised union → 222A ∪ union 5 DIAMOND OPERATOR → 25C7 ♦ white diamond
Misce 22A4 22A5 Relati 22A6 22A7	llland	= reducible LEFT TACK = reverse turnstile = non-theorem, does not yield eous mathematical symbols DOWN TACK = top → 2E06 T raised interpolation marker → 1F768 T alchemical symbol for crucible-4 UP TACK = base, bottom → 27C2 ⊥ perpendicular ASSERTION = reduces to MODELS	22C0 22C1 22C2 22C3 Opera	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	N-ARY LOGICAL AND • also used to denote the universal quantifier → 2227 ∧ logical and N-ARY LOGICAL OR • also used to denote the existential quantifier → 2228 ∨ logical or N-ARY INTERSECTION = z notation generalised intersection → 2229 ∩ intersection N-ARY UNION = z notation generalised union → 222A ∪ union S DIAMOND OPERATOR → 25C7 ♦ white diamond → 2B29 • black small diamond
Misce 22A4 22A5 Relati 22A6	llland	= reducible LEFT TACK = reverse turnstile = non-theorem, does not yield eous mathematical symbols DOWN TACK = top → 2E06 T raised interpolation marker → 1F768 T alchemical symbol for crucible-4 UP TACK = base, bottom → 27C2 ⊥ perpendicular ASSERTION = reduces to MODELS TRUE	22C0 22C1 22C2 22C3 Opera	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	N-ARY LOGICAL AND • also used to denote the universal quantifier → 2227 ∧ logical and N-ARY LOGICAL OR • also used to denote the existential quantifier → 2228 ∨ logical or N-ARY INTERSECTION = z notation generalised intersection → 2229 ∩ intersection N-ARY UNION = z notation generalised union → 222A ∪ union S DIAMOND OPERATOR → 25C7 ♦ white diamond → 2B29 • black small diamond DOT OPERATOR
Misce 22A4 22A5 Relati 22A6 22A7	llland	= reducible LEFT TACK = reverse turnstile = non-theorem, does not yield eous mathematical symbols DOWN TACK = top → 2E06 T raised interpolation marker → 1F768 T alchemical symbol for crucible-4 UP TACK = base, bottom → 27C2 ⊥ perpendicular ASSERTION = reduces to MODELS TRUE = statement is true, valid	22C0 22C1 22C2 22C3 Opera	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	N-ARY LOGICAL AND • also used to denote the universal quantifier → 2227 ∧ logical and N-ARY LOGICAL OR • also used to denote the existential quantifier → 2228 ∨ logical or N-ARY INTERSECTION = z notation generalised intersection → 2229 ∩ intersection N-ARY UNION = z notation generalised union → 2224 ∪ union 5 DIAMOND OPERATOR → 25C7 ♦ white diamond → 2829 • black small diamond DOT OPERATOR • preferred to 0087 · for denotation of
Misce 22A4 22A5 Relati 22A6 22A7	llland	= reducible LEFT TACK = reverse turnstile = non-theorem, does not yield eous mathematical symbols DOWN TACK = top → 2E06 T raised interpolation marker → 1F768 T alchemical symbol for crucible-4 UP TACK = base, bottom → 27C2 ⊥ perpendicular ASSERTION = reduces to MODELS TRUE = statement is true, valid = is a tautology	22C0 22C1 22C2 22C3 Opera	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	N-ARY LOGICAL AND • also used to denote the universal quantifier → 2227 ∧ logical and N-ARY LOGICAL OR • also used to denote the existential quantifier → 2228 ∨ logical or N-ARY INTERSECTION = z notation generalised intersection → 2229 ∩ intersection N-ARY UNION = z notation generalised union → 2224 ∪ union S DIAMOND OPERATOR → 25C7 ♦ white diamond → 2829 • black small diamond DOT OPERATOR • preferred to 0087 · for denotation of multiplication
Misce 22A4 22A5 Relati 22A6 22A7	llland	= reducible LEFT TACK = reverse turnstile = non-theorem, does not yield eous mathematical symbols DOWN TACK = top → 2E06 T raised interpolation marker → 1F768 T alchemical symbol for crucible-4 UP TACK = base, bottom → 27C2 ⊥ perpendicular ASSERTION = reduces to MODELS TRUE = statement is true, valid	22C0 22C1 22C2 22C3 Opera 22C4 22C5	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	N-ARY LOGICAL AND • also used to denote the universal quantifier → 2227 ∧ logical and N-ARY LOGICAL OR • also used to denote the existential quantifier → 2228 ∨ logical or N-ARY INTERSECTION = z notation generalised intersection → 2229 ∩ intersection N-ARY UNION = z notation generalised union → 2224 ∪ union S DIAMOND OPERATOR → 25C7 ♦ white diamond → 2829 • black small diamond DOT OPERATOR • preferred to 0087 · for denotation of multiplication → 0087 · middle dot
Misce 22A4 22A5 Relati 22A6 22A7 22A8	lland	= reducible LEFT TACK = reverse turnstile = non-theorem, does not yield eous mathematical symbols DOWN TACK = top → 2E06 T raised interpolation marker → 1F768 T alchemical symbol for crucible-4 UP TACK = base, bottom → 27C2 ⊥ perpendicular ASSERTION = reduces to MODELS TRUE = statement is true, valid = is a tautology = satisfies	22C0 22C1 22C2 22C3 Opera	V U	N-ARY LOGICAL AND • also used to denote the universal quantifier → 2227 ∧ logical and N-ARY LOGICAL OR • also used to denote the existential quantifier → 2228 ∨ logical or N-ARY INTERSECTION = z notation generalised intersection → 2229 ∩ intersection N-ARY UNION = z notation generalised union → 2224 ∪ union S DIAMOND OPERATOR → 25C7 ♦ white diamond → 2829 • black small diamond DOT OPERATOR • preferred to 0087 · for denotation of multiplication
Misce 22A4 22A5 Relati 22A6 22A7	Illand T ⊥ ions ⊢ ⊨	= reducible LEFT TACK = reverse turnstile = non-theorem, does not yield eous mathematical symbols DOWN TACK = top → 2E06 T raised interpolation marker → 1F768 T alchemical symbol for crucible-4 UP TACK = base, bottom → 27C2 ⊥ perpendicular ASSERTION = reduces to MODELS TRUE = statement is true, valid = is a tautology = satisfies = results in	22C0 22C1 22C2 22C3 Opera 22C4 22C5	V U	N-ARY LOGICAL AND • also used to denote the universal quantifier → 2227 ∧ logical and N-ARY LOGICAL OR • also used to denote the existential quantifier → 2228 ∨ logical or N-ARY INTERSECTION = z notation generalised intersection → 2229 ∩ intersection N-ARY UNION = z notation generalised union → 2224 ∪ union S DIAMOND OPERATOR → 25C7 ♦ white diamond → 2829 • black small diamond DOT OPERATOR • preferred to 0087 · for denotation of multiplication → 0087 · middle dot STAR OPERATOR • APL
Misce 22A4 22A5 Relati 22A6 22A7 22A8	illand T ⊥ ions ⊢ ⊨ III	= reducible LEFT TACK = reverse turnstile = non-theorem, does not yield eous mathematical symbols DOWN TACK = top → 2E06 T raised interpolation marker → 1F768 T alchemical symbol for crucible-4 UP TACK = base, bottom → 27C2 ⊥ perpendicular ASSERTION = reduces to MODELS TRUE = statement is true, valid = is a tautology = satisfies = results in FORCES TRIPLE VERTICAL BAR RIGHT TURNSTILE	22C0 22C1 22C2 22C3 Opera 22C4 22C5	V U	N-ARY LOGICAL AND • also used to denote the universal quantifier → 2227 ∧ logical and N-ARY LOGICAL OR • also used to denote the existential quantifier → 2228 ∨ logical or N-ARY INTERSECTION = z notation generalised intersection → 2229 ∩ intersection N-ARY UNION = z notation generalised union → 222A ∪ union S DIAMOND OPERATOR → 25C7 ♦ white diamond → 2B29 • black small diamond DOT OPERATOR • preferred to 0087 · for denotation of multiplication → 0087 · middle dot STAR OPERATOR
Misce 22A4 22A5 Relati 22A6 22A7 22A8	illand T ⊥ ions ⊢ ⊨ III	= reducible LEFT TACK = reverse turnstile = non-theorem, does not yield eous mathematical symbols DOWN TACK = top → 2E06 T raised interpolation marker → 1F768 T alchemical symbol for crucible-4 UP TACK = base, bottom → 27C2 ⊥ perpendicular ASSERTION = reduces to MODELS TRUE = statement is true, valid = is a tautology = satisfies = results in FORCES	22C0 22C1 22C2 22C3 Opera 22C4 22C5	V U	N-ARY LOGICAL AND • also used to denote the universal quantifier → 2227 ∧ logical and N-ARY LOGICAL OR • also used to denote the existential quantifier → 2228 ∨ logical or N-ARY INTERSECTION = z notation generalised intersection → 2229 ∩ intersection N-ARY UNION = z notation generalised union → 2224 ∪ union S DIAMOND OPERATOR → 25C7 ♦ white diamond → 2829 • black small diamond DOT OPERATOR • preferred to 0087 · for denotation of multiplication → 0087 · middle dot STAR OPERATOR • APL → 066D * arabic five pointed star
Misce 22A4 22A5 Relati 22A6 22A7 22A8	illand T ⊥ ions ⊢ ⊨ III	= reducible LEFT TACK = reverse turnstile = non-theorem, does not yield eous mathematical symbols DOWN TACK = top → 2E06 Traised interpolation marker → 1F768 Tralchemical symbol for crucible-4 UP TACK = base, bottom → 27C2 L perpendicular ASSERTION = reduces to MODELS TRUE = statement is true, valid = is a tautology = satisfies = results in FORCES TRIPLE VERTICAL BAR RIGHT TURNSTILE DOUBLE VERTICAL BAR DOUBLE RIGHT TURNSTILE DOES NOT PROVE	22C0 22C1 22C2 22C3 Opera 22C4 22C5	V U	N-ARY LOGICAL AND • also used to denote the universal quantifier → 2227 ∧ logical and N-ARY LOGICAL OR • also used to denote the existential quantifier → 2228 ∨ logical or N-ARY INTERSECTION = z notation generalised intersection → 2229 ∩ intersection N-ARY UNION = z notation generalised union → 222A ∪ union S DIAMOND OPERATOR → 25C7 ♦ white diamond → 2B29 • black small diamond DOT OPERATOR • preferred to 00B7 · for denotation of multiplication → 00B7 · middle dot STAR OPERATOR • APL → 066D * arabic five pointed star → 2605 ★ black star
22A4 22A5 Relati 22A6 22A7 22A8 22A9 22AA 22AB	illand T ⊥ ions ⊢ ⊧ ⊨ ⊩ ⊩ ⊨ ⊬	= reducible LEFT TACK = reverse turnstile = non-theorem, does not yield eous mathematical symbols DOWN TACK = top → 2E06 T raised interpolation marker → 1F768 T alchemical symbol for crucible-4 UP TACK = base, bottom → 27C2 ⊥ perpendicular ASSERTION = reduces to MODELS TRUE = statement is true, valid = is a tautology = satisfies = results in FORCES TRIPLE VERTICAL BAR RIGHT TURNSTILE DOUBLE VERTICAL BAR DOUBLE RIGHT TURNSTILE DOES NOT PROVE ≡ 22A2 ⊢ 0338 ∅	22C0 22C1 22C2 22C3 Oper. 22C4 22C5 22C6	\lambda \lambd	N-ARY LOGICAL AND • also used to denote the universal quantifier → 2227 ∧ logical and N-ARY LOGICAL OR • also used to denote the existential quantifier → 2228 ∨ logical or N-ARY INTERSECTION = z notation generalised intersection → 2229 ∩ intersection N-ARY UNION = z notation generalised union → 222A ∪ union S DIAMOND OPERATOR → 25C7 ♦ white diamond → 2B29 • black small diamond DOT OPERATOR • preferred to 00B7 · for denotation of multiplication → 00B7 · middle dot STAR OPERATOR • APL → 066D ★ arabic five pointed star → 2605 ★ black star → 2B50 ★ white medium star
22A4 22A5 Relati 22A6 22A7 22A8 22A9 22AA 22AB	illand T ⊥ ions ⊢ ⊧ ⊨ ⊩ ⊩ ⊨ ⊬	= reducible LEFT TACK = reverse turnstile = non-theorem, does not yield eous mathematical symbols DOWN TACK = top → 2E06 Traised interpolation marker → 1F768 Tralchemical symbol for crucible-4 UP TACK = base, bottom → 27C2 L perpendicular ASSERTION = reduces to MODELS TRUE = statement is true, valid = is a tautology = satisfies = results in FORCES TRIPLE VERTICAL BAR RIGHT TURNSTILE DOUBLE VERTICAL BAR DOUBLE RIGHT TURNSTILE DOES NOT PROVE	22C0 22C1 22C2 22C3 Oper. 22C4 22C5 22C6	\lambda \lambd	N-ARY LOGICAL AND • also used to denote the universal quantifier → 2227 ∧ logical and N-ARY LOGICAL OR • also used to denote the existential quantifier → 2228 ∨ logical or N-ARY INTERSECTION = z notation generalised intersection → 2229 ∩ intersection N-ARY UNION = z notation generalised union → 222A ∪ union S DIAMOND OPERATOR → 25C7 ♦ white diamond → 2B29 • black small diamond DOT OPERATOR • preferred to 00B7 · for denotation of multiplication → 00B7 · middle dot STAR OPERATOR • APL → 066D ★ arabic five pointed star → 2605 ★ black star → 2B50 ★ white medium star

Relat	ion		22ED	⊭	DOES NOT CONTAIN AS NORMAL SUBGROUP
22C8	\bowtie	BOWTIE			OR EQUAL
		→ 2445 M ocr bow tie	22EE	:	≡ 22B5 ⊵ 0338 ¢ VERTICAL ELLIPSIS
Opera	ators	i	ZZLL	:	these four ellipses are used for matrix
22C9	\bowtie	LEFT NORMAL FACTOR SEMIDIRECT PRODUCT			row/column elision
22CA	\rtimes	RIGHT NORMAL FACTOR SEMIDIRECT			→ 205D: tricolon
0000		PRODUCT			→ 2026 horizontal ellipsis
22CB 22CC		LEFT SEMIDIRECT PRODUCT RIGHT SEMIDIRECT PRODUCT			→ FE19 : presentation form for vertical horizontal ellipsis
2200	~	\rightarrow 2041 χ caret insertion point	22EF		MIDLINE HORIZONTAL ELLIPSIS
Dolot	:	2011 & caree insertion point	22F0		
Relati 22CD		DEVENCED THE DE FOLIAL C	22F1	٠.	DOWN RIGHT DIAGONAL ELLIPSIS
	_	•	22F2	€	ELEMENT OF WITH LONG HORIZONTAL
-		perators	0050		STROKE
		CURLY LOGICAL OR	22F3	⋳	ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE
22CF		CURLY LOGICAL AND	22F4	€	SMALL ELEMENT OF WITH VERTICAL BAR AT
Relat	ions			_	END OF HORIZONTAL STROKE
22D0	€	DOUBLE SUBSET	22F5	Ė	ELEMENT OF WITH DOT ABOVE
22D1	⋑	DOUBLE SUPERSET	22F6	_	ELEMENT OF WITH OVERBAR
Opera	ators	;	22F7	Ē	SMALL ELEMENT OF WITH OVERBAR
22D2	\square	DOUBLE INTERSECTION	22F8 22F9	⋸	ELEMENT OF WITH UNDERBAR ELEMENT OF WITH TWO HORIZONTAL
22D3	W	DOUBLE UNION	2213	€	STROKES
Relat	ions		22FA	€	CONTAINS WITH LONG HORIZONTAL STROKE
22D4	Ψ	PITCHFORK	22FB	₽	CONTAINS WITH VERTICAL BAR AT END OF
22D5	#	= proper intersection EQUAL AND PARALLEL TO	22FC	Ð	HORIZONTAL STROKE SMALL CONTAINS WITH VERTICAL BAR AT END
2203	#	→ 2317 ‡ viewdata square	221 0	9	OF HORIZONTAL STROKE
22D6	<	LESS-THAN WITH DOT	22FD	⋾	CONTAINS WITH OVERBAR
22D7	>	GREATER-THAN WITH DOT	22FE	⋾	SMALL CONTAINS WITH OVERBAR
22D8	~	VERY MUCH LESS-THAN	22FF	\equiv	Z NOTATION BAG MEMBERSHIP
22D9		VERY MUCH GREATER-THAN			
22DA	<u>\</u>	LESS-THAN EQUAL TO OR GREATER-THAN			
22DB	>	~ 22DA FE00 \(\) with slanted equal			
ZZDB	~	GREATER-THAN EQUAL TO OR LESS-THAN ~ 22DB FE00 with slanted equal			
22DC	7	EQUAL TO OR LESS-THAN			
22DD	>	EQUAL TO OR GREATER-THAN			
22DE	₹	EQUAL TO OR PRECEDES			
22DF	≽	EQUAL TO OR SUCCEEDS			
22E0	≰	DOES NOT PRECEDE OR EQUAL			
0054	s.l	= 227C ≤ 0338 Ø			
22E1	¥	DOES NOT SUCCEED OR EQUAL ≡ 227D ≽ 0338 Ø			
22E2	⊈	NOT SQUARE IMAGE OF OR EQUAL TO			
	=	= 2291 ⊑ 0338 Ø			
22E3	⊉	NOT SQUARE ORIGINAL OF OR EQUAL TO			
		≡ 2292 ⊒ 0338 Ø			
22E4	두	SQUARE IMAGE OF OR NOT EQUAL TO			
22E5	₹	SQUARE ORIGINAL OF OR NOT EQUAL TO			
22E6	⋦	LESS-THAN BUT NOT EQUIVALENT TO			
22E7 22E8	> ₹ ∀ ₽	GREATER-THAN BUT NOT EQUIVALENT TO PRECEDES BUT NOT EQUIVALENT TO			
22E9	∻ ≻∻	SUCCEEDS BUT NOT EQUIVALENT TO			
22EA	<i></i>	NOT NORMAL SUBGROUP OF			
	•	≡ 22B2 < 0338 Ø			
22EB	\not	DOES NOT CONTAIN AS NORMAL SUBGROUP			
2250	.4.	≡ 22B3 ⊳ 0338 Ø			
22EC	⊉	NOT NORMAL SUBGROUP OF OR EQUAL TO ≡ 22B4 ≤ 0338 Ø			
		= 2204 2 000 %			

Standa	rdized Va	ariation Sequences	2293	\neg	SQUARE CAP
2205	Ø	EMPTY SET		2293	
	2205				with serifs
	Ø	zero with long diagonal stroke overlay form		2293 FE00	
	2205 FE00		2294	11	SQUARE CUP
2229	\cap	INTERSECTION		2294	
	2229			Ц	with serifs
	\bigcap	with serifs		2294 FE00	
2224	2229 FE00		2295	\oplus	CIRCLED PLUS
222A	U	UNION		2295	
	222A	with a wife		\oplus	with white rim
	U	with serifs		2295 FE00	
2268	222A FE00	LEGG THAN BUT NOT FOUND TO	2297	\otimes	CIRCLED TIMES
	≩	LESS-THAN BUT NOT EQUAL TO		2297	
	2268	with vertical stroke		\otimes	with white rim
	¥		2200	2297 FE00	
2269	2268 FE00	GREATER-THAN BUT NOT EQUAL TO	229C		CIRCLED EQUALS
	≥ 2269	Cheffel Hill Hot Hot Egone 10		229C	with agual sign touching the circle
	}	with vertical stroke		\Rightarrow	with equal sign touching the circle
	2269 FE00		22DA	229C FE00	LESS-THAN EQUAL TO OR GREATER-
2272	<	LESS-THAN OR EQUIVALENT TO		22DA	THAN
	2272			22DA	with slanted equal
	€	following the slant of the lower leg		22DA FE00	·
	2272 FE00		22DB	22DA FE00	GREATER-THAN EQUAL TO OR LESS-
2273	\geq	GREATER-THAN OR EQUIVALENT TO		22DB	THAN
	2273			\geqslant	with slanted equal
	\geq	following the slant of the lower leg		22DB FE00	
2201	2273 FE00				
228A	Ç	SUBSET OF WITH NOT EQUAL TO			
	228A	with at a lea the according to a the according to			
	⊊	with stroke through bottom members			
228B	228A FE00	CURERCET OF WITH NOT FOUND TO			
	<u>ب</u>	SUPERSET OF WITH NOT EQUAL TO			
	228B	with stroke through bottom members			
	⊋				
	228B FE00				