Supplemental Mathematical Operators Range: 2A00–2AFF

This file contains an excerpt from the character code tables and list of character names for *The Unicode Standard, Version 5.0.*

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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-5.0/ for charts showing only the characters added in Unicode 5.0. See http://www.unicode.org/Public/5.0.0/charts/ for a complete archived file of character code charts for Unicode 5.0.

Disclaimer

These charts are provided as the on-line reference to the character contents of the Unicode Standard, Version 5.0 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 5.0 (ISBN 0-321-48091-0), online at http://www.unicode.org/versions/Unicode5.0.0/, as well as Unicode Standard Annexes #9, #11, #14, #15, #24, #29, #31, and #34, the other Unicode Technical Reports and Standards, and the Unicode Character Database, which are available on-line.

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.

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

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	2A0	2A1	2A2	2A3	2A4	2A5	2A6	2A7	2A8	2A9	2AA	2AB	2AC	2AD	2AE	2AF
0	O 2A00	f 2A10	>>> 2A20	× 2A30	• 2A40	X 2A50	2A60	2A70	2A80	2A90			P 2AC0	D 2AD0	 2AE0	J 2AF0
1	2A01	∫ 2A11	1 2A21	X 2A31	H 2A41	Å 2A51	V 2A61	2A71	2 A81	2A91	2 AA1	★ 2AB1	× 2AC1	<u>2</u> AD1	S 2AE1	J 2AF1
2	2A02	5 2A12	● + 2A22	X 2A32	U 2A42	V 2A52	2A62	± 2A72	2482	2A92	> 2AA2	2AB2	N× 2AC2	D 2AD2	2AE2	# 2AF2
3	1 2A03	3 2A13	1 2A23	X 2A33	П 2A43	A 2A53	2A63	2473	2483	2A93	2AA3		• 2AC3	S 2AD3		₩ 2AF3
4	(+) 2A04	5 2A14	— 2A24	(× 2A34	2A44	X 2A54	2464	2 A74	2484	2A94	2444	X 2AB4	• 1 2AC4	D 2AD4	2AE4	₩ 2AF4
5	2A05	9 2A15	+ 2A25	X 2A35	V 2A45	2A55	2A65		V% 2A85	2A95	> < 2AA5	₩ 2AB5	UII 2AC5	E 2AD5	2AE5	₩ 2AF5
6	2A06	4 2A16	+ 2A26	Â 2A36	U 2A46	2A56	• 2A66	2 A76	2A86	2A96	2 AA6			D 2AD6	2AE6	2AF6
7	2A07		+ <u>2</u> 2A27	() 2A37	O 2A47	2A57	• 2A67	2A77	₩ 2A87	2 A97	D 2AA7	Y 2AB7	2 AC7		1 2AE7	2AF7
8	2A08	∱ 2A18	+ 2A28	2A38) 2A48	2A58	# 2A68	2A78	2488	2 A98	2 AA8	2488	2 2AC8	Э С 2AD8	 2AE8	2AF8
9	X 2A09	∫ 2A19	9 2A29	2A39	C 2A49	XX 2A59	## 2A69	2 A79	V% 2A89	2A99	2449	Y% 2AB9	U% 2AC9	M 2AD9	2AE9	2AF9
A	240A	∮ 2A1A		2A3A	W 2A4A	A 2A5A	• 2A6A	> 2A7A	\}	2494	V _{2AAA}		N% 2ACA			2AFA
в	2 2A0B	J 2A1B	• • 2A2B	2A3B	ന 2A4B	V 2A5B	~ 2A6B	? ~ 2A7B		2A9B	> 2AAB	K 2ABB	U ¥ 2ACB			/// 2AFB
С	SSS 2AOC	$\int_{\frac{2}{2}A1C}$	2A2C	_	D 2A4C	A 2A5C	2A6C	? 2A7C		2A9C	V 2AAC	>> 2ABC		2ADC	2AEC	2AFC
D	£	2A1D	(+ 2A2D	L 2A3D	D 2A4D	₩ 2A5D	• 2A6D	۲ 2A7D	X 2A8D	2A9D		C 2ABD	2ACD		2AED	// 2AFD
E	€ 2A0E	4 2A1E	₽ 2A2E	9 2A3E	1 2A4E	7 2A5E	*	2 A7E	2485	2A9E	4 2AAE) 2ABE	2ACE	- 2ADE	AEE] 2AFE
F	f 2AOF	0 9 2A1F	X 2A2F	∐ 2A3F	Ш 2A4F	<u>245</u> F	~ 2A6F	e 2A7F	VIN 2A8F	2 A9F	∠ 2AAF	CH 2ABF	۲ 2ACF	2ADF	P 2AEF	2AFF

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N-a	rv c	operators	2A21
		N-ARY CIRCLED DOT OPERATOR	
21100	\cup	\rightarrow 2299 \odot circled dot operator	
		$\rightarrow 25C9 \bullet \text{fisheye}$	Plu
2A01	\oplus	N-ARY CIRCLED PLUS OPERATOR	2A22
	0	\rightarrow 2295 \oplus circled plus	2A23
2A02	\otimes	N-ARY CIRCLED TIMES OPERATOR	0404
2A03	U	→ 2297 ⊗ circled times N-ARY UNION OPERATOR WITH DOT	2A24
2A03	Ų	N-ARY UNION OPERATOR WITH PLUS	2A25
	Ũ	$\rightarrow 228E \Downarrow$ multiset union	2/ 120
2A05	Π	N-ARY SQUARE INTERSECTION OPERATOR	2A26
		\rightarrow 2293 \square square cap	
2A06	Ш	N-ARY SQUARE UNION OPERATOR	2A27
2A07	\wedge	\rightarrow 2294 \sqcup square cup TWO LOGICAL AND OPERATOR	2A28
2A07	// \\	= merge	2A20
		\rightarrow 2A55 \bigstar two intersecting logical and	2A2A
2A08	\lor	TWO LOGICAL OR OPERATOR	
		\rightarrow 2A56 \forall two intersecting logical or	2A2B
2A09	Х	N-ARY TIMES OPERATOR	2A2C
		\rightarrow 00D7 × multiplication sign	2A2D 2A2E
Sun	om.	ations and integrals	
		ations and integrals	Mul
2A0A	D	MODULO TWO SUM $\rightarrow 2211 \sum$ n-ary summation	ope
2A0B	£	SUMMATION WITH INTEGRAL	2A2F
	Ĩ		
		\rightarrow 222D \iiint triple integral	2A30
	C	$\approx 222B \int 222B \int 222B \int 222B \int$	2A31
2A0D	f	FINITE PART INTEGRAL	2A32
2A0E 2A0F	ŧ	INTEGRAL WITH DOUBLE STROKE	2A33 2A34
2A0F 2A10	٦ ۲	INTEGRAL AVERAGE WITH SLASH CIRCULATION FUNCTION	2A35
2A11	ţ	ANTICLOCKWISE INTEGRATION	2A36
2A12	Ĵ,	LINE INTEGRATION WITH RECTANGULAR	0407
0440	ç	PATH AROUND POLE	2A37 2A38
2A13	ş	LINE INTEGRATION WITH SEMICIRCULAR PATH AROUND POLE	ZAJO
2A14	ې و	LINE INTEGRATION NOT INCLUDING THE POLE	Mis
2A15	ş	INTEGRAL AROUND A POINT OPERATOR	2A39
	- C	\rightarrow 222E \oint contour integral	2A3A
2A16	₽ ſ	QUATERNION INTEGRAL OPERATOR	2A3B
2A17	ፓ	INTEGRAL WITH LEFTWARDS ARROW WITH HOOK	2A3C
2A18	¥	INTEGRAL WITH TIMES SIGN	2A3D
2A19	£	INTEGRAL WITH INTERSECTION	2830
2A1A	Ţ	INTEGRAL WITH UNION	
2A1B	J	INTEGRAL WITH OVERBAR	2A3E
2A1C	ſ	= upper integral INTEGRAL WITH UNDERBAR	
2410	<u>J</u>	= lower integral	2A3F
		-	
Mis	cel	aneous large operators	Inte
2A1D	\bowtie		2A40
		= large bowtie	2740
		• relational database theory	
		\rightarrow 22C8 \bowtie bowtie	2A41
		\rightarrow 27D7 \bowtie full outer join	
2A 4E			
2A1E	٩		
2A1E	4	• relational database theory $\rightarrow 25C1 \triangleleft$ white left-pointing triangle	2A42 2A43

3 Z NOTATION SCHEMA COMPOSITION

A21 ↑ Z NOTATION SCHEMA PROJECTION → 21BE ↑ upwards harpoon with barb rightwards

Plus and minus sign operators

- A22 $\stackrel{\circ}{+}$ PLUS SIGN WITH SMALL CIRCLE ABOVE
- A23 + PLUS SIGN WITH CIRCUMFLEX ACCENT ABOVE
- ABOVE ABOVE = PLUS SIGN WITH TILDE ABOVE = positive difference or sum PLUS SIGN WITH DOT BELOW $\rightarrow 2214 \ddagger dot plus$ 26 \pm PLUS SIGN WITH TILDE BELOW = sum or positive difference 27 \pm PLUS SIGN WITH SUBSCRIPT TWO
- = nim-addition
- 28 + PLUS SIGN WITH BLACK TRIANGLE
- A29 MINUS SIGN WITH COMMA ABOVE
- 2A \rightarrow MINUS SIGN WITH DOT BELOW $\rightarrow 2238 \div$ dot minus
- A2B ↔ MINUS SIGN WITH FALLING DOTS
- A2C \div MINUS SIGN WITH RISING DOTS
- 2A2D \oplus PLUS SIGN IN LEFT HALF CIRCLE
- 2A2E → PLUS SIGN IN RIGHT HALF CIRCLE

Multiplication and division sign operators

	2A2F	×	VECTOR OR CROSS PRODUCT
			\rightarrow 00D7 \times multiplication sign
	2A30	×	MULTIPLICATION SIGN WITH DOT ABOVE
	2A31	\mathbf{X}	MULTIPLICATION SIGN WITH UNDERBAR
	2A32	X	SEMIDIRECT PRODUCT WITH BOTTOM CLOSED
	2A33	*	SMASH PRODUCT
	2A34	(×	MULTIPLICATION SIGN IN LEFT HALF CIRCLE
	2A35	×) ®	MULTIPLICATION SIGN IN RIGHT HALF CIRCLE
	2A36	\otimes	CIRCLED MULTIPLICATION SIGN WITH CIRCUMFLEX ACCENT
	2A37	\otimes	MULTIPLICATION SIGN IN DOUBLE CIRCLE
	2A38	÷	CIRCLED DIVISION SIGN
		-	
DLE	Mise	cell	laneous mathematical operators
	2A39	A	PLUS SIGN IN TRIANGLE
	2A3A	Δ	MINUS SIGN IN TRIANGLE
	2A3B	\land	MULTIPLICATION SIGN IN TRIANGLE
[2A3C	_	INTERIOR PRODUCT
			\rightarrow 230B J right floor
	2A3D	L	RIGHTHAND INTERIOR PRODUCT
			\rightarrow 230A L left floor
			\rightarrow 2319 \vdash turned not sign
	2A3E	ŝ	Z NOTATION RELATIONAL COMPOSITION
			\rightarrow 2A1F $;$ z notation schema composition
	2A3F	Ш	AMALGAMATION OR COPRODUCT
			\rightarrow 2210 \coprod n-ary coproduct
	Into	reo	ctions and unions
	2A40		
	ZA40	Ω	INTERSECTION WITH DOT
			\rightarrow 2227 \land logical and \rightarrow 27D1 \land and with dot
	0444		
	2A41	A	UNION WITH MINUS SIGN
			= z notation bag subtraction
	0440	_	$\rightarrow 228E $ multiset union
	2A42 2A43	Ū Ā	UNION WITH OVERBAR
	2A43 2A44	n A	INTERSECTION WITH OVERBAR INTERSECTION WITH LOGICAL AND
	2A44 2A45	l∧i Ƴ	UNION WITH LOGICAL AND
	2A45 2A46	С Х	UNION WITH LOGICAL OR UNION ABOVE INTERSECTION
	2/140	0	UNION ABOVE INTERSECTION

2A1F

Supplemental Mathematical Operators

2A47	0	INTERSECTION ABOVE UNION	2A
2A48	ĸ	UNION ABOVE BAR ABOVE INTERSECTION	
2A49	θ	INTERSECTION ABOVE BAR ABOVE UNION	2A
2A4A	w	UNION BESIDE AND JOINED WITH UNION	2A
2A4B	m	INTERSECTION BESIDE AND JOINED WITH	
		INTERSECTION	2A
2A4C	σ	CLOSED UNION WITH SERIFS	
.		\rightarrow 222A U union	2A
2A4D	Δ	CLOSED INTERSECTION WITH SERIFS	2A
-		\rightarrow 2229 \cap intersection	
2A4E	Π	DOUBLE SQUARE INTERSECTION	2A
2A4F		DOUBLE SQUARE UNION	
2A50	⊛	CLOSED UNION WITH SERIFS AND SMASH PRODUCT	2A
_	_		2A
Log	ica	l ands and ors	ZA
2A51	٨	LOGICAL AND WITH DOT ABOVE	2A
2A52	v	LOGICAL OR WITH DOT ABOVE	2A
2A53	۸	DOUBLE LOGICAL AND	2A
2A54	V	DOUBLE LOGICAL OR	2A
2A55	ҝ	TWO INTERSECTING LOGICAL AND	2A
		\rightarrow 2A07 \land two logical and operator	0.4
2A56	W	TWO INTERSECTING LOGICAL OR	2A
		\rightarrow 2A08 \bigvee two logical or operator	0.4
2A57	$\scriptstyle m \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! $	SLOPING LARGE OR	2A
2A58	1	SLOPING LARGE AND	0.4
2A59	Ж	LOGICAL OR OVERLAPPING LOGICAL AND	2A
2A5A	٨	LOGICAL AND WITH MIDDLE STEM	2A
2A5B	V	LOGICAL OR WITH MIDDLE STEM	27.0
2A5C	A	LOGICAL AND WITH HORIZONTAL DASH	2A
2A5D 2A5E	₹	LOGICAL OR WITH HORIZONTAL DASH	
ZAGE	Λ	LOGICAL AND WITH DOUBLE OVERBAR $\rightarrow 2306 \overline{}$ perspective	2A
2A5F	Δ	LOGICAL AND WITH UNDERBAR	2A
2A60	$\overline{\Delta}$	LOGICAL AND WITH UNDERBAR	27
2/100	=	\rightarrow 2259 \triangleq estimates	2A
2A61	v	SMALL VEE WITH UNDERBAR	
2/10/	_	\rightarrow 225A \leq equiangular to	2A
2A62	₹	LOGICAL OR WITH DOUBLE OVERBAR	2A
2A63	¥	LOGICAL OR WITH DOUBLE UNDERBAR	2A
		\rightarrow 225A \leq equiangular to	2A
Mia	!!		ZA
		aneous mathematical operators	
2A64	₹	Z NOTATION DOMAIN ANTIRESTRICTION	2A
2A65	₽	Z NOTATION RANGE ANTIRESTRICTION	2A
		$\rightarrow 2332 \Rightarrow$ conical taper	2A
Rela	ntio	nal operators	
2A66	÷	EQUALS SIGN WITH DOT BELOW	2A
2/100	·	\rightarrow 2250 \doteq approaches the limit	
2A67	≐	IDENTICAL WITH DOT ABOVE	
2A68	#	TRIPLE HORIZONTAL BAR WITH DOUBLE	2A
		VERTICAL STROKE	2A
		= identical and parallel to	2A
		\rightarrow 22D5 # equal and parallel to	
		\rightarrow 29E5 # identical to and slanted parallel	2A
2A69	#	TRIPLE HORIZONTAL BAR WITH TRIPLE	2A
0404		VERTICAL STROKE	
2A6A	~	TILDE OPERATOR WITH DOT ABOVE	2A
2A6B	*	TILDE OPERATOR WITH RISING DOTS	~ .
2460	~	\rightarrow 223B \Rightarrow homothetic	2A
2A6C	≋ ∻	SIMILAR MINUS SIMILAR	2A
2A6D	à	CONGRUENT WITH DOT ABOVE \rightarrow 2245 \sim approximately equal to	ZA
0405	4	\rightarrow 2245 \cong approximately equal to	2A
2A6E	*	EQUALS WITH ASTERISK \rightarrow 225B \leq star equals	

	2A6F	ŝ	ALMOST EQUAL TO WITH CIRCUMFLEX ACCENT
	2A70	ĩ II	APPROXIMATELY EQUAL OR EQUAL TO
	2A71	Ŧ	EQUALS SIGN ABOVE PLUS SIGNblack stands slightly better (chess notation)
	2A72	Ŧ	PLUS SIGN ABOVE EQUALS SIGN
			• white stands slightly better (chess notation)
	2A73	≡	EQUALS SIGN ABOVE TILDE OPERATOR
	2A74	==	DOUBLE COLON EQUAL $\approx 003A: 003A: 003D =$
	2A75	==	TWO CONSECUTIVE EQUALS SIGNS
	<u></u>		$\approx 003D = 003D =$
	2A76	===	THREE CONSECUTIVE EQUALS SIGNS $\approx 003D = 003D = 003D =$
	2A77	#	EQUALS SIGN WITH TWO DOTS ABOVE AND TWO DOTS BELOW
	2A78	≡	EQUIVALENT WITH FOUR DOTS ABOVE
	2A79	ا	LESS-THAN WITH CIRCLE INSIDE
	2A7A	> 2	GREATER-THAN WITH CIRCLE INSIDE
	2A7B 2A7C	2	LESS-THAN WITH QUESTION MARK ABOVE
	ZA/C	Ž	GREATER-THAN WITH QUESTION MARK ABOVE
	2A7D	≼	LESS-THAN OR SLANTED EQUAL TO \rightarrow 2264 \leq less-than or equal to
	2A7E	≥	GREATER-THAN OR SLANTED EQUAL TO
		-	\rightarrow 2265 \geq greater-than or equal to
	2A7F	Ŵ	LESS-THAN OR SLANTED EQUAL TO WITH DOT INSIDE
	2A80	≫	GREATER-THAN OR SLANTED EQUAL TO WITH DOT INSIDE
	2A81	Ķ	LESS-THAN OR SLANTED EQUAL TO WITH DOT ABOVE
	2A82	≱	GREATER-THAN OR SLANTED EQUAL TO WITH DOT ABOVE
	2A83	, Š	LESS-THAN OR SLANTED EQUAL TO WITH DOT ABOVE RIGHT
	2A84	.≽	GREATER-THAN OR SLANTED EQUAL TO WITH DOT ABOVE LEFT
	2A85	V≋	LESS-THAN OR APPROXIMATE
	2A86	N≋	GREATER-THAN OR APPROXIMATE
	2A87	≨	LESS-THAN AND SINGLE-LINE NOT EQUAL TO \rightarrow 2268 \leq less-than but not equal to
	2A88	≩	GREATER-THAN AND SINGLE-LINE NOT
5	2/100	+	EQUAL TO
	0400	~	\rightarrow 2269 \geqq greater-than but not equal to
	2A89 2A8A	%N %V	LESS-THAN AND NOT APPROXIMATE GREATER-THAN AND NOT APPROXIMATE
	2A6A 2A8B	VIIV#	LESS-THAN ABOVE DOUBLE-LINE EQUAL
	ZHUD	>	ABOVE GREATER-THAN
			\rightarrow 22DA \leq less-than equal to or greater-than
	2A8C	VIV	GREATER-THAN ABOVE DOUBLE-LINE EQUAL ABOVE LESS-THAN
	0400	_	\rightarrow 22DB \gtrless greater-than equal to or less-than
	2A8D 2A8E	≦ ∧	LESS-THAN ABOVE SIMILAR OR EQUAL GREATER-THAN ABOVE SIMILAR OR EQUAL
	2A8E	VINV	LESS-THAN ABOVE SIMILAR ABOVE GREATER-
	2A90	٨٧	THAN GREATER-THAN ABOVE SIMILAR ABOVE LESS-
	2A91	M	THAN LESS-THAN ABOVE GREATER-THAN ABOVE
	2A92	NII	DOUBLE-LINE EQUAL GREATER-THAN ABOVE LESS-THAN ABOVE
	2A93	VM	DOUBLE-LINE EQUAL LESS-THAN ABOVE SLANTED EQUAL ABOVE
	2A94	NIN	GREATER-THAN ABOVE SLANTED EQUAL
			GREATER-THAN ABOVE SLANTED EQUAL ABOVE LESS-THAN ABOVE SLANTED EQUAL
	2A95	<	SLANTED EQUAL TO OR LESS-THAN $\rightarrow 22DC \leq$ equal to or less-than

Supplemental Mathematical Operators

2A96	≥	SLANTED EQUAL TO OR GREATER-THAN	2AC4	-
2A97	⋓	\rightarrow 22DD \geq equal to or greater-than SLANTED EQUAL TO OR LESS-THAN WITH DOT	2AC5 2AC6	
2A98	≫	INSIDE SLANTED EQUAL TO OR GREATER-THAN WITH	2AC7 2AC8	
2A99	N	DOT INSIDE DOUBLE-LINE EQUAL TO OR LESS-THAN	2AC9 2ACA	
2A9A	١	→ 22DC \leq equal to or less-than DOUBLE-LINE EQUAL TO OR GREATER-THAN	2ACB 2ACC	
2A9B	W	→ 22DD \geq equal to or greater-than DOUBLE-LINE SLANTED EQUAL TO OR LESS-	2ACD 2ACE	
2A9C	IIN	THAN DOUBLE-LINE SLANTED EQUAL TO OR GREATER-THAN	2ACF	C
2A9D	ĩ	SIMILAR OR LESS-THAN	2AD0	Ľ
2A9E	ĩ	SIMILAR OR GREATER-THAN	0404	~
2A9F	Ĩ	SIMILAR ABOVE LESS-THAN ABOVE EQUALS	2AD1	<u>_</u>
2AA0	ĩ	SIGN SIMILAR ABOVE GREATER-THAN ABOVE	2AD2 2AD3	
2AA1		EQUALS SIGN	2AD4	2
ZAAT	∢	DOUBLE NESTED LESS-THAN = absolute continuity	2AD5 2AD6	
		\rightarrow 226A \ll much less-than	2AD0 2AD7	- -
2AA2	≫	DOUBLE NESTED GREATER-THAN	2AD7	_ ∋
2002	/	\rightarrow 226B \gg much greater-than	2000	
2AA3	\leq	DOUBLE NESTED LESS-THAN WITH	Earl	
		UNDERBAR	For	
2AA4	×	GREATER-THAN OVERLAPPING LESS-THAN	2AD9	N
2AA5	\times	GREATER-THAN BESIDE LESS-THAN		
2AA6 2AA7	Δ	LESS-THAN CLOSED BY CURVE GREATER-THAN CLOSED BY CURVE	0454	7
2AA7 2AA8	₽ Ø	LESS-THAN CLOSED BY CURVE ABOVE	2ADA	Ŋ
2AA9	₩ 0	SLANTED EQUAL GREATER-THAN CLOSED BY CURVE ABOVE	2ADB	ſ
2/0/10	-	SLANTED EQUAL	2400	
2AAA	≤	SMALLER THAN	2ADC	ų
2AAB	≥	LARGER THAN		
2AAC	₹	SMALLER THAN OR EQUAL TO		
2AAD	≥	LARGER THAN OR EQUAL TO		
2AAE	≙	EQUALS SIGN WITH BUMPY ABOVE \rightarrow 224F \simeq difference between		
2AAF	≤	PRECEDES ABOVE SINGLE-LINE EQUALS SIGN		
2001		\rightarrow 227C \leq precedes or equal to	2ADD	J
2AB0	≥	SUCCEEDS ABOVE SINGLE-LINE EQUALS SIGN \rightarrow 227D \geq succeeds or equal to		
2AB1	~	PRECEDES ABOVE SINGLE-LINE NOT EQUAL		
ZADT	≯	TO		
2AB2	≱	SUCCEEDS ABOVE SINGLE-LINE NOT EQUAL TO	-	
2AB3	≦	PRECEDES ABOVE EQUALS SIGN	Tac	KS
2AB4	≥	SUCCEEDS ABOVE EQUALS SIGN	2ADE	-
2AB5 2AB6	\# >	PRECEDES ABOVE NOT EQUAL TO		
ZABO 2AB7	λ# Λ%	SUCCEEDS ABOVE NOT EQUAL TO PRECEDES ABOVE ALMOST EQUAL TO	2ADF	٦
2AB8	≋ ∧≋	SUCCEEDS ABOVE ALMOST EQUAL TO	<u></u>	
2AB9	~ ∖≇	PRECEDES ABOVE NOT ALMOST EQUAL TO	2AE0	_
2ABA	%∧%	SUCCEEDS ABOVE NOT ALMOST EQUAL TO	0454	
2ABB	*	DOUBLE PRECEDES	2AE1	
2ABC	≫	DOUBLE SUCCEEDS	2AE2	Þ
	set	and superset relations	2AE3	_
2ABD	C	SUBSET WITH DOT	2AE4	=
2ABE	∋	SUPERSET WITH DOT		
2ABF 2AC0	₽ ₽	SUBSET WITH PLUS SIGN BELOW SUPERSET WITH PLUS SIGN BELOW	2AE5	=
2AC0 2AC1	⊊ Ç	SUPERSET WITH PLUS SIGN BELOW SUBSET WITH MULTIPLICATION SIGN BELOW	0450	
2AC2	Ň	SUPERSET WITH MULTIPLICATION SIGN BELOW	2AE6	H
2402		BELOW SUBSET OF OP FOLIAL TO WITH DOT ABOVE		

2AC3 \doteq SUBSET OF OR EQUAL TO WITH DOT ABOVE

DOT TTH AN S-	2AC4 2AC5 2AC6 2AC7 2AC8 2AC9 2ACA 2ACB 2ACC 2ACC 2ACC 2ACC 2ACC	ᆡᆘᆘᇇᄭ᠉᠉᠉ᆘᆘ	SUPERSET OF OR EQUAL TO WITH DOT ABOVE SUBSET OF ABOVE EQUALS SIGN SUPERSET OF ABOVE TILDE OPERATOR SUBSET OF ABOVE TILDE OPERATOR SUPERSET OF ABOVE ALMOST EQUAL TO SUPERSET OF ABOVE ALMOST EQUAL TO SUBSET OF ABOVE NOT EQUAL TO SUPERSET OF ABOVE NOT EQUAL TO SUPERSET OF ABOVE NOT EQUAL TO SQUARE LEFT OPEN BOX OPERATOR SQUARE RIGHT OPEN BOX OPERATOR CLOSED SUBSET
			\rightarrow 2282 \subset subset of
	2AD0	D	CLOSED SUPERSET $\rightarrow 2283 \supset$ superset of
LS	2AD1 2AD2 2AD3 2AD4 2AD5 2AD6 2AD7 2AD8		CLOSED SUBSET OR EQUAL TO CLOSED SUBSET OR EQUAL TO SUBSET ABOVE SUPERSET SUPERSET ABOVE SUBSET SUBSET ABOVE SUBSET SUPERSET ABOVE SUPERSET SUPERSET BESIDE SUBSET SUPERSET BESIDE AND JOINED BY DASH WITH SUBSET
	For	(S	
I	2AD9	Μ	ELEMENT OF OPENING DOWNWARDS $\rightarrow 2208 \in \text{element of}$
	2ADA	Ψ	→ 27D2 \cup element of opening upwards PITCHFORK WITH TEE TOP → 22D4 \pitchfork pitchfork
E	2ADB	ψ	TRANSVERSAL INTERSECTION \rightarrow 22D4 \Uparrow pitchfork
	2ADC	¥ک	FORKING = not independent • an equational logic symbol, not a computing
GN GN L L	2ADD	Ψ	 science symbol non-independence (original concept) is related to forking = 2ADD ↓ 0338 Ø NONFORKING = independent an equational logic symbol, not a computing science symbol independence (original concept) is related to non-forking
	Tac	ks a	and turnstiles
	2ADE	-	SHORT LEFT TACK
	2ADF	т	→ 22A3 \dashv left tack SHORT DOWN TACK → 22A4 \top down tack
)	2AE0	ㅗ	SHORT UP TACK $\rightarrow 22A5 \perp$ up tack
)	2AE1 2AE2	⊫ ≣	PERPENDICULAR WITH S
	2AE3	-11	DOUBLE VERTICAL BAR LEFT TURNSTILE $\rightarrow 22A9 \parallel$ forces
	2AE4	≓	VERTICAL BAR DOUBLE LEFT TURNSTILE

- $\rightarrow 22A8 \vDash true$ $5 \dashv DOUBLE VERTICAL BAR DOUBLE LEFT$ TURNSTILE
- - \rightarrow 22A9 \Vdash forces

2AE7 Supplemental Mathematical Operators

- 2AE7 \Rightarrow SHORT DOWN TACK WITH OVERBAR $\rightarrow 22A4 \top$ down tack $\rightarrow 2351 \overline{1}$ apl functional symbol up tack overbar
- 2AE8 \pm SHORT UP TACK WITH UNDERBAR → 22A5 \perp up tack → 234A \perp apl functional symbol down tack underbar
- 2AE9 + SHORT UP TACK ABOVE SHORT DOWN TACK
- 2AEA \square DOUBLE DOWN TACK
- 2AEB ⊥ DOUBLE UP TACK
 - = independence
 - probability theory
- 2AEC = DOUBLE STROKE NOT SIGN \rightarrow 00AC \neg not sign
- $2AED = REVERSED DOUBLE STROKE NOT SIGN \rightarrow 2310 \vdash reversed not sign$

Vertical line operators

2AEE	ł	DOES NOT DIVIDE WITH REVERSED NEGATION SLASH
		\rightarrow 2224 \ddagger does not divide
2AEF	ſ	VERTICAL LINE WITH CIRCLE ABOVE
2AF0	ſ	VERTICAL LINE WITH CIRCLE BELOW
2AF1	î	DOWN TACK WITH CIRCLE BELOW
		= necessarily satisfies
		\rightarrow 27DF l up tack with circle above
2AF2	Ħ	PARALLEL WITH HORIZONTAL STROKE
		\rightarrow 2226 # not parallel to
		\rightarrow 27CA \ddagger vertical bar with horizontal stroke
2AF3	⋕	PARALLEL WITH TILDE OPERATOR
2AF4		TRIPLE VERTICAL BAR BINARY RELATION
		= interleave
		\rightarrow 2980 triple vertical bar delimiter
2AF5	₩	TRIPLE VERTICAL BAR WITH HORIZONTAL STROKE

 \rightarrow 27CA \ddagger vertical bar with horizontal stroke

Miscellaneous mathematical operator

- 2AF6 : TRIPLE COLON OPERATOR
 - logic
 - $\rightarrow 205\text{D}$: tricolon
 - \rightarrow 22EE : vertical ellipsis

Relations

- 2AF7 ≪ TRIPLE NESTED LESS-THAN
- \rightarrow 22D8 \ll very much less-than
- 2AF8 \Rightarrow TRIPLE NESTED GREATER-THAN \rightarrow 22D9 ≫ very much greater-than
- 2AF9 ≤ DOUBLE-LINE SLANTED LESS-THAN OR EQUAL TO \rightarrow 2266 ≤ less-than over equal to
- 2AFA ≥ DOUBLE-LINE SLANTED GREATER-THAN OR EQUAL TO
- \rightarrow 2267 ≥ greater-than over equal to 2AFB /// TRIPLE SOLIDUS BINARY RELATION
 - \rightarrow 2AF4 II triple vertical bar binary relation

Operators

- 2AFC Ⅲ LARGE TRIPLE VERTICAL BAR OPERATOR • often n-ary
 - \rightarrow 2AF4 $I\!I\!I$ triple vertical bar binary relation
 - \rightarrow 2980 || triple vertical bar delimiter
- 2AFD // DOUBLE SOLIDUS OPERATOR \rightarrow 2225 || parallel to

- 2AFE WHITE VERTICAL BAR = Dijkstra choice
- 2AFF N-ARY WHITE VERTICAL BAR

= n-ary Dijkstra choice