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 13.0*

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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-13.0/ for charts showing only the characters added in Unicode 13.0.

See http://www.unicode.org/Public/13.0.0/charts/ for a complete archived file of character code charts for Unicode 13.0.

Disclaimer

These charts are provided as the online reference to the character contents of the Unicode Standard, Version 13.0 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 13.0, online at http://www.unicode.org/versions/Unicode13.0.0/, as well as Unicode Standard Annexes #9, #11, #14, #15, #24, #29, #31, #34, #38, #41, #42, #44, #45, and #50, 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.

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	2A0	2A1	2A2	2A3	2A4	2A5	2A6	2A7	2A8	2A9	2AA	2AB	2AC	2AD	2AE	2AF
0	2A00	\oint_{2A10}	>>> 2A20	X 2A30	∩ 2A40	2A50	<u>A</u>	2 A70	≥ 2A80	\\\\ 2A90	<u>X</u>	2AB0	⊋ 2AC0	D 2AD0	_ _	J 2AF0
1	<u>2A01</u>	∮	2A21	<u>X</u>	U 2A41	A 2A51	<u>V</u> 2A61	= 2A71	% 2A81	<u>X</u>	≪ 2AA1	∠ 2AB1	X 2AC1	<u></u>	S 2AE1	J 2AF1
2	2A02	5 2A12	2A22	X 2A32	U 2A42	Ž 2A52	ZA62	<u>+</u>	> 2A82	₩	≫ 2AA2	≥ 2AB2	X 2AC2	<u>D</u> 2AD2	2AE2	# 2AF2
3	2A03	5 2A13	1 2A23	※ 2A33	7 2A43	A 2A53	<u>V</u> 2A63	= 2A73	₹ 2A83	X	<u>≪</u> 2AA3	<u>≤</u>	Ž 2AC3	S 2AD3	 2AE3	₩ 2AF3
4	+	5 2A14	~ 2A24	(× 2A34	A 2A44	W 2A54	2A64	2A74	2A84	/// 2A94	≥ 2AA4	<u></u>	<u>.</u> 2AC4	2AD4	=	2AF4
5	2A05	9 2A15	+ 2A25	X) 2A35	Y 2A45	2A55	2A65	2 A75	\ 2A85	2A95	>< 2AA5	¥ 2AB5	Z 2AC5	ZAD5	= 2AE5	2AF5
6	2A06	£ 2A16	+ 2A26	2A36	O 2A46	W 2A56	2A66	2A76	\bigwedge \gtrsim 2A86	A96	2 AA6	≥ 2AB6	<u>2AC6</u>	AD6	 	2AF6
7	A 2A07	∳	+2 2A27	2A37	O U 2A47	2A57	<u>•</u> 2A67	2A77	A 2A87	≪ 2A97	> 2AA7	≥ ≥ ≥ ≥ ≥ ≥ ≥ ≥ ≥ ≥ ≥ ≥ ≥ ≥ ≥ ≥ ≥ ≥ ≥	∠ 2AC7	2AD7	T	2AF7
8	W 2A08	★ 2A18	★ 2A28	2A38	<u>U</u> 2A48	2A58	# 2A68	2A78	<u>→</u> 2A88	2A98	₹	≥ ≥ ≥ ≥ ≥ ≥ ≥ ≥ ≥ ≥ ≥ ≥ ≥ ≥ ≥ ≥ ≥ ≥ ≥	≥ 2AC8	€ 2AD8	 2AE8	2AF8
9	X 2A09	f	9 2A29	2A39	O 2A49	X 2A59	## 2A69	2 A79	\ ≈ 2A89	1 V 2A99	2AA9	X ≥2AB9	U ≋ 2AC9	1 2AD9	+ 2AE9	≪ 2AF9
Α	2A0A	∯ 2A1A	2A2A	2A3A	W	↑ 2A5A	~	≫ 2A7A	\ 2A8A	11 × 2A9A	← 2AAA	≯ 2ABA	N ≥ACA	₹ 2ADA	TT 2AEA	2AFA
В	5 2A0B	J 2A1B	2A2B	2A3B	↑	V 2A5B	~ 2A6B	?	VIII ABB	2A9B	≥ 2AAB	≪ 2ABB	¥ 2ACB	T 2ADB		/// 2AFB
С	∭ 2A0C	<u></u>	2A2C		U 2A4C	A 2A5C	2	? 2A7C	∭ 2A8C	2A9C	₹ 2AAC	>>> 2ABC	⊋ 2ACC	L 2ADC	= 2AEC	2AFC
D	$f_{\scriptscriptstyle{2A0D}}$	2A1D	(+		<u></u>	₩ 2A5D	<u>*</u>	≤ 2A7D	∠ 2A8D	₹	≥ 2AAD	C 2ABD	2ACD	↓	F 2AED	// 2AFD
Ε	f 2A0E	ZA1E	→ 2A2E	o 9 2A3E	2A4E	2A5E	<u>≭</u> 2A6E	2A7E	<u>2</u>	2A9E	2AAE	2ABE	2ACE	⊣	+ 2AEE	ZAFE
F	f 2A0F	9 2A1F	X 2A2F	LI 2A3F	Ш 2А4F	<u>∧</u> 2A5F	\$	≪ 2A7F	X 2A8F	2 1 2 3 9 F	∠ 2AAF	+ 2ABF	2ACF	T 2ADF	A 2AEF	ZAFF

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in-arv	ope	rators	2A1F	9	Z NOTATION SCHEMA COMPOSITION
2A00	\odot	N-ARY CIRCLED DOT OPERATOR		,	→ 2A3E; z notation relational composition
2/100	O	→ 2299 ⊙ circled dot operator	2A20	>>	Z NOTATION SCHEMA PIPING
				//	→ 226B ≫ much greater-than
2401	\bigcirc	→ 25C9 • fisheye	2A21	1	Z NOTATION SCHEMA PROJECTION
2A01	\oplus	N-ARY CIRCLED PLUS OPERATOR	2/12 1	ı	→ 21BE upwards harpoon with barb
	_	→ 2295 ⊕ circled plus			rightwards
2A02	\otimes	N-ARY CIRCLED TIMES OPERATOR		_	5
		→ 2297 ⊗ circled times			minus sign operators
		→ 2B59 ⊗ heavy circled saltire	2A22	ů	PLUS SIGN WITH SMALL CIRCLE ABOVE
2A03	\cup	N-ARY UNION OPERATOR WITH DOT	2A23	Î	PLUS SIGN WITH CIRCUMFLEX ACCENT ABOVE
		→ 228D ⊍ multiset multiplication	2A24	Ŧ	PLUS SIGN WITH TILDE ABOVE
2A04	\forall	N-ARY UNION OPERATOR WITH PLUS			= positive difference or sum
		→ 228E ♥ multiset union	2A25	+	PLUS SIGN WITH DOT BELOW
2A05	П	N-ARY SQUARE INTERSECTION OPERATOR		•	\rightarrow 2214 \dotplus dot plus
		→ 2293 ⊓ square cap	2A26	±	PLUS SIGN WITH TILDE BELOW
2A06	П	N-ARY SQUARE UNION OPERATOR		~	= sum or positive difference
	_	→ 2294 ⊔ square cup	2A27	+	PLUS SIGN WITH SUBSCRIPT TWO
2A07	\wedge	TWO LOGICAL AND OPERATOR	_,	12	= nim-addition
	// \\	= merge	2A28	+	PLUS SIGN WITH BLACK TRIANGLE
		→ 2A55 ★ two intersecting logical and	2A29	<u>,</u>	MINUS SIGN WITH COMMA ABOVE
2A08	W	TWO LOGICAL OR OPERATOR	2A2A	÷	MINUS SIGN WITH DOT BELOW
27100	W	→ 2A56 w two intersecting logical or	ZAZA	-	
2400	\/		0.4.0D		→ 2238 ÷ dot minus
2A09	X		2A2B	÷	MINUS SIGN WITH FALLING DOTS
		\rightarrow 00D7 \times multiplication sign	2A2C	÷	
Sumn	natio	ons and integrals	2A2D	(+	PLUS SIGN IN LEFT HALF CIRCLE
2A0A	Σ	MODULO TWO SUM	2A2E	+)	PLUS SIGN IN RIGHT HALF CIRCLE
	_	\rightarrow 2211 Σ n-ary summation	Multi	plica	ation and division sign operators
2A0B	£	SUMMATION WITH INTEGRAL	2A2F	×	VECTOR OR CROSS PRODUCT
2A0C	<i></i>		ZAZF	×	
2/100	JJJJ	→ 222D // triple integral	0400	.•.	→ 00D7 × multiplication sign
		$\approx 222B \int 222B \int 222B \int 222B \int$	2A30	×	MULTIPLICATION SIGN WITH DOT ABOVE
2400	ſ		2A31	\times	MULTIPLICATION SIGN WITH UNDERBAR
2A0D	f_{c}	FINITE PART INTEGRAL	2A32	X	SEMIDIRECT PRODUCT WITH BOTTOM CLOSED
2A0E	€	INTEGRAL WITH DOUBLE STROKE	$\alpha \wedge \alpha \gamma$		
			2A33	*	SMASH PRODUCT
2A0F	f	INTEGRAL AVERAGE WITH SLASH	2A33 2A34	* (×	SMASH PRODUCT MULTIPLICATION SIGN IN LEFT HALF CIRCLE
2A10	₹	INTEGRAL AVERAGE WITH SLASH CIRCULATION FUNCTION			
	<i>f</i> <i>f</i>	INTEGRAL AVERAGE WITH SLASH	2A34	(×	MULTIPLICATION SIGN IN LEFT HALF CIRCLE
2A10	₹	INTEGRAL AVERAGE WITH SLASH CIRCULATION FUNCTION	2A34 2A35	(×	MULTIPLICATION SIGN IN LEFT HALF CIRCLE MULTIPLICATION SIGN IN RIGHT HALF CIRCLE
2A10 2A11	f f f	INTEGRAL AVERAGE WITH SLASH CIRCULATION FUNCTION ANTICLOCKWISE INTEGRATION	2A34 2A35	(×	MULTIPLICATION SIGN IN LEFT HALF CIRCLE MULTIPLICATION SIGN IN RIGHT HALF CIRCLE CIRCLED MULTIPLICATION SIGN WITH CIRCUMFLEX ACCENT
2A10 2A11	<i>f</i> <i>f</i>	INTEGRAL AVERAGE WITH SLASH CIRCULATION FUNCTION ANTICLOCKWISE INTEGRATION LINE INTEGRATION WITH RECTANGULAR PATH	2A34 2A35 2A36	⊗⊗	MULTIPLICATION SIGN IN LEFT HALF CIRCLE MULTIPLICATION SIGN IN RIGHT HALF CIRCLE CIRCLED MULTIPLICATION SIGN WITH
2A10 2A11 2A12	<i>f f f f f f</i>	INTEGRAL AVERAGE WITH SLASH CIRCULATION FUNCTION ANTICLOCKWISE INTEGRATION LINE INTEGRATION WITH RECTANGULAR PATH AROUND POLE LINE INTEGRATION WITH SEMICIRCULAR PATH AROUND POLE	2A34 2A35 2A36 2A37 2A38	⊗⊗⊗⊕	MULTIPLICATION SIGN IN LEFT HALF CIRCLE MULTIPLICATION SIGN IN RIGHT HALF CIRCLE CIRCLED MULTIPLICATION SIGN WITH CIRCUMFLEX ACCENT MULTIPLICATION SIGN IN DOUBLE CIRCLE CIRCLED DIVISION SIGN
2A10 2A11 2A12	f f f f f	INTEGRAL AVERAGE WITH SLASH CIRCULATION FUNCTION ANTICLOCKWISE INTEGRATION LINE INTEGRATION WITH RECTANGULAR PATH AROUND POLE LINE INTEGRATION WITH SEMICIRCULAR PATH	2A34 2A35 2A36 2A37 2A38 Misce	⊗ ⊕	MULTIPLICATION SIGN IN LEFT HALF CIRCLE MULTIPLICATION SIGN IN RIGHT HALF CIRCLE CIRCLED MULTIPLICATION SIGN WITH CIRCUMFLEX ACCENT MULTIPLICATION SIGN IN DOUBLE CIRCLE CIRCLED DIVISION SIGN eous mathematical operators
2A10 2A11 2A12 2A13	f f f f f	INTEGRAL AVERAGE WITH SLASH CIRCULATION FUNCTION ANTICLOCKWISE INTEGRATION LINE INTEGRATION WITH RECTANGULAR PATH AROUND POLE LINE INTEGRATION WITH SEMICIRCULAR PATH AROUND POLE	2A34 2A35 2A36 2A37 2A38 Misce 2A39	⊗ ⊗ ⊕ ellan	MULTIPLICATION SIGN IN LEFT HALF CIRCLE MULTIPLICATION SIGN IN RIGHT HALF CIRCLE CIRCLED MULTIPLICATION SIGN WITH CIRCUMFLEX ACCENT MULTIPLICATION SIGN IN DOUBLE CIRCLE CIRCLED DIVISION SIGN eous mathematical operators PLUS SIGN IN TRIANGLE
2A10 2A11 2A12 2A13 2A14	<i>f f f f f f</i>	INTEGRAL AVERAGE WITH SLASH CIRCULATION FUNCTION ANTICLOCKWISE INTEGRATION LINE INTEGRATION WITH RECTANGULAR PATH AROUND POLE LINE INTEGRATION WITH SEMICIRCULAR PATH AROUND POLE LINE INTEGRATION NOT INCLUDING THE POLE INTEGRAL AROUND A POINT OPERATOR	2A34 2A35 2A36 2A37 2A38 Misce 2A39 2A3A	⊗ ⊕ Elland	MULTIPLICATION SIGN IN LEFT HALF CIRCLE MULTIPLICATION SIGN IN RIGHT HALF CIRCLE CIRCLED MULTIPLICATION SIGN WITH CIRCUMFLEX ACCENT MULTIPLICATION SIGN IN DOUBLE CIRCLE CIRCLED DIVISION SIGN eous mathematical operators PLUS SIGN IN TRIANGLE MINUS SIGN IN TRIANGLE
2A10 2A11 2A12 2A13 2A14 2A15		INTEGRAL AVERAGE WITH SLASH CIRCULATION FUNCTION ANTICLOCKWISE INTEGRATION LINE INTEGRATION WITH RECTANGULAR PATH AROUND POLE LINE INTEGRATION WITH SEMICIRCULAR PATH AROUND POLE LINE INTEGRATION NOT INCLUDING THE POLE INTEGRAL AROUND A POINT OPERATOR → 222E ∮ contour integral	2A34 2A35 2A36 2A37 2A38 Misce 2A39	⊗ ⊕ Elland	MULTIPLICATION SIGN IN LEFT HALF CIRCLE MULTIPLICATION SIGN IN RIGHT HALF CIRCLE CIRCLED MULTIPLICATION SIGN WITH CIRCUMFLEX ACCENT MULTIPLICATION SIGN IN DOUBLE CIRCLE CIRCLED DIVISION SIGN eous mathematical operators PLUS SIGN IN TRIANGLE
2A10 2A11 2A12 2A13 2A14 2A15	<i>f f f f f f f f f f</i>	INTEGRAL AVERAGE WITH SLASH CIRCULATION FUNCTION ANTICLOCKWISE INTEGRATION LINE INTEGRATION WITH RECTANGULAR PATH AROUND POLE LINE INTEGRATION WITH SEMICIRCULAR PATH AROUND POLE LINE INTEGRATION NOT INCLUDING THE POLE INTEGRAL AROUND A POINT OPERATOR → 222E ∮ contour integral QUATERNION INTEGRAL OPERATOR	2A34 2A35 2A36 2A37 2A38 Misce 2A39 2A3A	⊗ ⊕ Elland	MULTIPLICATION SIGN IN LEFT HALF CIRCLE MULTIPLICATION SIGN IN RIGHT HALF CIRCLE CIRCLED MULTIPLICATION SIGN WITH CIRCUMFLEX ACCENT MULTIPLICATION SIGN IN DOUBLE CIRCLE CIRCLED DIVISION SIGN eous mathematical operators PLUS SIGN IN TRIANGLE MINUS SIGN IN TRIANGLE
2A10 2A11 2A12 2A13 2A14 2A15		INTEGRAL AVERAGE WITH SLASH CIRCULATION FUNCTION ANTICLOCKWISE INTEGRATION LINE INTEGRATION WITH RECTANGULAR PATH AROUND POLE LINE INTEGRATION WITH SEMICIRCULAR PATH AROUND POLE LINE INTEGRATION NOT INCLUDING THE POLE INTEGRAL AROUND A POINT OPERATOR → 222E ∮ contour integral QUATERNION INTEGRAL OPERATOR INTEGRAL WITH LEFTWARDS ARROW WITH	2A34 2A35 2A36 2A37 2A38 Misce 2A39 2A3A 2A3B	⊗ ⊕ ellande A A	MULTIPLICATION SIGN IN LEFT HALF CIRCLE MULTIPLICATION SIGN IN RIGHT HALF CIRCLE CIRCLED MULTIPLICATION SIGN WITH CIRCUMFLEX ACCENT MULTIPLICATION SIGN IN DOUBLE CIRCLE CIRCLED DIVISION SIGN eous mathematical operators PLUS SIGN IN TRIANGLE MINUS SIGN IN TRIANGLE MULTIPLICATION SIGN IN TRIANGLE INTERIOR PRODUCT
2A10 2A11 2A12 2A13 2A14 2A15 2A16 2A17	fff; 5 55 pf	INTEGRAL AVERAGE WITH SLASH CIRCULATION FUNCTION ANTICLOCKWISE INTEGRATION LINE INTEGRATION WITH RECTANGULAR PATH AROUND POLE LINE INTEGRATION WITH SEMICIRCULAR PATH AROUND POLE LINE INTEGRATION NOT INCLUDING THE POLE INTEGRAL AROUND A POINT OPERATOR → 222E ∮ contour integral QUATERNION INTEGRAL OPERATOR INTEGRAL WITH LEFTWARDS ARROW WITH HOOK	2A34 2A35 2A36 2A37 2A38 Misce 2A39 2A3A 2A3B	⊗ ⊕ ellande A A	MULTIPLICATION SIGN IN LEFT HALF CIRCLE MULTIPLICATION SIGN IN RIGHT HALF CIRCLE CIRCLED MULTIPLICATION SIGN WITH CIRCUMFLEX ACCENT MULTIPLICATION SIGN IN DOUBLE CIRCLE CIRCLED DIVISION SIGN eous mathematical operators PLUS SIGN IN TRIANGLE MINUS SIGN IN TRIANGLE MULTIPLICATION SIGN IN TRIANGLE INTERIOR PRODUCT → 230B J right floor
2A10 2A11 2A12 2A13 2A14 2A15 2A16 2A17 2A18	F F F F F F F F F	INTEGRAL AVERAGE WITH SLASH CIRCULATION FUNCTION ANTICLOCKWISE INTEGRATION LINE INTEGRATION WITH RECTANGULAR PATH AROUND POLE LINE INTEGRATION WITH SEMICIRCULAR PATH AROUND POLE LINE INTEGRATION NOT INCLUDING THE POLE INTEGRAL AROUND A POINT OPERATOR → 222E ∮ contour integral QUATERNION INTEGRAL OPERATOR INTEGRAL WITH LEFTWARDS ARROW WITH HOOK INTEGRAL WITH TIMES SIGN	2A34 2A35 2A36 2A37 2A38 Misce 2A39 2A3A 2A3B 2A3C	⊗ ⊗ ⊕ elland A A	MULTIPLICATION SIGN IN LEFT HALF CIRCLE MULTIPLICATION SIGN IN RIGHT HALF CIRCLE CIRCLED MULTIPLICATION SIGN WITH CIRCUMFLEX ACCENT MULTIPLICATION SIGN IN DOUBLE CIRCLE CIRCLED DIVISION SIGN eous mathematical operators PLUS SIGN IN TRIANGLE MINUS SIGN IN TRIANGLE MULTIPLICATION SIGN IN TRIANGLE INTERIOR PRODUCT → 230B J right floor ~ 2A3C FE00 J tall variant with narrow foot
2A10 2A11 2A12 2A13 2A14 2A15 2A16 2A17 2A18 2A19	子女子子 子 声声 单子 米外	INTEGRAL AVERAGE WITH SLASH CIRCULATION FUNCTION ANTICLOCKWISE INTEGRATION LINE INTEGRATION WITH RECTANGULAR PATH AROUND POLE LINE INTEGRATION WITH SEMICIRCULAR PATH AROUND POLE LINE INTEGRATION NOT INCLUDING THE POLE INTEGRAL AROUND A POINT OPERATOR → 222E ∮ contour integral QUATERNION INTEGRAL OPERATOR INTEGRAL WITH LEFTWARDS ARROW WITH HOOK INTEGRAL WITH TIMES SIGN INTEGRAL WITH INTERSECTION	2A34 2A35 2A36 2A37 2A38 Misce 2A39 2A3A 2A3B	⊗ ⊕ ellande A A	MULTIPLICATION SIGN IN LEFT HALF CIRCLE MULTIPLICATION SIGN IN RIGHT HALF CIRCLE CIRCLED MULTIPLICATION SIGN WITH CIRCUMFLEX ACCENT MULTIPLICATION SIGN IN DOUBLE CIRCLE CIRCLED DIVISION SIGN eous mathematical operators PLUS SIGN IN TRIANGLE MINUS SIGN IN TRIANGLE MULTIPLICATION SIGN IN TRIANGLE INTERIOR PRODUCT → 230B J right floor ~ 2A3C FE00 J tall variant with narrow foot RIGHTHAND INTERIOR PRODUCT
2A10 2A11 2A12 2A13 2A14 2A15 2A16 2A17 2A18 2A19 2A1A	fff; & Sop ff * My	INTEGRAL AVERAGE WITH SLASH CIRCULATION FUNCTION ANTICLOCKWISE INTEGRATION LINE INTEGRATION WITH RECTANGULAR PATH AROUND POLE LINE INTEGRATION WITH SEMICIRCULAR PATH AROUND POLE LINE INTEGRATION NOT INCLUDING THE POLE INTEGRAL AROUND A POINT OPERATOR → 222E ∮ contour integral QUATERNION INTEGRAL OPERATOR INTEGRAL WITH LEFTWARDS ARROW WITH HOOK INTEGRAL WITH TIMES SIGN INTEGRAL WITH INTERSECTION INTEGRAL WITH UNION	2A34 2A35 2A36 2A37 2A38 Misce 2A39 2A3A 2A3B 2A3C	⊗ ⊗ ⊕ elland A A	MULTIPLICATION SIGN IN LEFT HALF CIRCLE MULTIPLICATION SIGN IN RIGHT HALF CIRCLE CIRCLED MULTIPLICATION SIGN WITH CIRCUMFLEX ACCENT MULTIPLICATION SIGN IN DOUBLE CIRCLE CIRCLED DIVISION SIGN eous mathematical operators PLUS SIGN IN TRIANGLE MINUS SIGN IN TRIANGLE MULTIPLICATION SIGN IN TRIANGLE INTERIOR PRODUCT → 230B J right floor ~ 2A3C FE00 J tall variant with narrow foot RIGHTHAND INTERIOR PRODUCT → 230A L left floor
2A10 2A11 2A12 2A13 2A14 2A15 2A16 2A17 2A18 2A19	子女子子 子 声声 单子 米外	INTEGRAL AVERAGE WITH SLASH CIRCULATION FUNCTION ANTICLOCKWISE INTEGRATION LINE INTEGRATION WITH RECTANGULAR PATH AROUND POLE LINE INTEGRATION WITH SEMICIRCULAR PATH AROUND POLE LINE INTEGRATION NOT INCLUDING THE POLE INTEGRAL AROUND A POINT OPERATOR → 222E ∮ contour integral QUATERNION INTEGRAL OPERATOR INTEGRAL WITH LEFTWARDS ARROW WITH HOOK INTEGRAL WITH TIMES SIGN INTEGRAL WITH UNION INTEGRAL WITH UNION INTEGRAL WITH OVERBAR	2A34 2A35 2A36 2A37 2A38 Misce 2A39 2A3A 2A3B 2A3C	⊗ ⊗ ⊕ elland A A	MULTIPLICATION SIGN IN LEFT HALF CIRCLE MULTIPLICATION SIGN IN RIGHT HALF CIRCLE CIRCLED MULTIPLICATION SIGN WITH CIRCUMFLEX ACCENT MULTIPLICATION SIGN IN DOUBLE CIRCLE CIRCLED DIVISION SIGN eous mathematical operators PLUS SIGN IN TRIANGLE MINUS SIGN IN TRIANGLE MULTIPLICATION SIGN IN TRIANGLE INTERIOR PRODUCT → 230B J right floor ~ 2A3C FE00 J tall variant with narrow foot RIGHTHAND INTERIOR PRODUCT → 230A L left floor → 2319 L turned not sign
2A10 2A11 2A12 2A13 2A14 2A15 2A16 2A17 2A18 2A19 2A1A 2A1B	fff; & Sop ff * My	INTEGRAL AVERAGE WITH SLASH CIRCULATION FUNCTION ANTICLOCKWISE INTEGRATION LINE INTEGRATION WITH RECTANGULAR PATH AROUND POLE LINE INTEGRATION WITH SEMICIRCULAR PATH AROUND POLE LINE INTEGRATION NOT INCLUDING THE POLE INTEGRAL AROUND A POINT OPERATOR → 222E ∮ contour integral QUATERNION INTEGRAL OPERATOR INTEGRAL WITH LEFTWARDS ARROW WITH HOOK INTEGRAL WITH TIMES SIGN INTEGRAL WITH UNION INTEGRAL WITH UNION INTEGRAL WITH OVERBAR = upper integral	2A34 2A35 2A36 2A37 2A38 Misce 2A39 2A3A 2A3B 2A3C	⊗ ⊕ ⊕ Elland	MULTIPLICATION SIGN IN LEFT HALF CIRCLE MULTIPLICATION SIGN IN RIGHT HALF CIRCLE CIRCLED MULTIPLICATION SIGN WITH CIRCUMFLEX ACCENT MULTIPLICATION SIGN IN DOUBLE CIRCLE CIRCLED DIVISION SIGN eous mathematical operators PLUS SIGN IN TRIANGLE MINUS SIGN IN TRIANGLE MULTIPLICATION SIGN IN TRIANGLE INTERIOR PRODUCT → 230B J right floor ~ 2A3C FE00 J tall variant with narrow foot RIGHTHAND INTERIOR PRODUCT → 230A L left floor → 2319 L turned not sign ~ 2A3D FE00 L tall variant with narrow foot
2A10 2A11 2A12 2A13 2A14 2A15 2A16 2A17 2A18 2A19 2A1A	fff; & Sop ff * My	INTEGRAL AVERAGE WITH SLASH CIRCULATION FUNCTION ANTICLOCKWISE INTEGRATION LINE INTEGRATION WITH RECTANGULAR PATH AROUND POLE LINE INTEGRATION WITH SEMICIRCULAR PATH AROUND POLE LINE INTEGRATION NOT INCLUDING THE POLE INTEGRAL AROUND A POINT OPERATOR → 222E ∮ contour integral QUATERNION INTEGRAL OPERATOR INTEGRAL WITH LEFTWARDS ARROW WITH HOOK INTEGRAL WITH TIMES SIGN INTEGRAL WITH INTERSECTION INTEGRAL WITH UNION INTEGRAL WITH OVERBAR = upper integral INTEGRAL WITH UNDERBAR	2A34 2A35 2A36 2A37 2A38 Misce 2A39 2A3A 2A3B 2A3C	⊗ ⊗ ⊕ elland A A	MULTIPLICATION SIGN IN LEFT HALF CIRCLE MULTIPLICATION SIGN IN RIGHT HALF CIRCLE CIRCLED MULTIPLICATION SIGN WITH CIRCUMFLEX ACCENT MULTIPLICATION SIGN IN DOUBLE CIRCLE CIRCLED DIVISION SIGN eous mathematical operators PLUS SIGN IN TRIANGLE MINUS SIGN IN TRIANGLE MULTIPLICATION SIGN IN TRIANGLE INTERIOR PRODUCT → 230B J right floor ~ 2A3C FE00 J tall variant with narrow foot RIGHTHAND INTERIOR PRODUCT → 230A L left floor → 2319 L turned not sign ~ 2A3D FE00 L tall variant with narrow foot Z NOTATION RELATIONAL COMPOSITION
2A10 2A11 2A12 2A13 2A14 2A15 2A16 2A17 2A18 2A19 2A1A 2A1B	fff; & Sop ff * My	INTEGRAL AVERAGE WITH SLASH CIRCULATION FUNCTION ANTICLOCKWISE INTEGRATION LINE INTEGRATION WITH RECTANGULAR PATH AROUND POLE LINE INTEGRATION WITH SEMICIRCULAR PATH AROUND POLE LINE INTEGRATION NOT INCLUDING THE POLE INTEGRAL AROUND A POINT OPERATOR → 222E ∮ contour integral QUATERNION INTEGRAL OPERATOR INTEGRAL WITH LEFTWARDS ARROW WITH HOOK INTEGRAL WITH TIMES SIGN INTEGRAL WITH UNION INTEGRAL WITH UNION INTEGRAL WITH OVERBAR = upper integral	2A34 2A35 2A36 2A37 2A38 Misce 2A39 2A3A 2A3B 2A3C 2A3D	 ⊗ ⊗ ⊕ ⊕ ⊕ A A A A A A A A B B	MULTIPLICATION SIGN IN LEFT HALF CIRCLE MULTIPLICATION SIGN IN RIGHT HALF CIRCLE CIRCLED MULTIPLICATION SIGN WITH CIRCUMFLEX ACCENT MULTIPLICATION SIGN IN DOUBLE CIRCLE CIRCLED DIVISION SIGN eous mathematical operators PLUS SIGN IN TRIANGLE MINUS SIGN IN TRIANGLE MULTIPLICATION SIGN IN TRIANGLE INTERIOR PRODUCT → 230B J right floor ~ 2A3C FE00 J tall variant with narrow foot RIGHTHAND INTERIOR PRODUCT → 230A L left floor → 2319 L turned not sign ~ 2A3D FE00 L tall variant with narrow foot Z NOTATION RELATIONAL COMPOSITION → 2A1F § z notation schema composition
2A10 2A11 2A12 2A13 2A14 2A15 2A16 2A17 2A18 2A19 2A1A 2A1B 2A1C	子子子 子 多 多 单 子 米 外 里 丁	INTEGRAL AVERAGE WITH SLASH CIRCULATION FUNCTION ANTICLOCKWISE INTEGRATION LINE INTEGRATION WITH RECTANGULAR PATH AROUND POLE LINE INTEGRATION WITH SEMICIRCULAR PATH AROUND POLE LINE INTEGRATION NOT INCLUDING THE POLE INTEGRAL AROUND A POINT OPERATOR → 222E ∮ contour integral QUATERNION INTEGRAL OPERATOR INTEGRAL WITH LEFTWARDS ARROW WITH HOOK INTEGRAL WITH TIMES SIGN INTEGRAL WITH INTERSECTION INTEGRAL WITH UNION INTEGRAL WITH OVERBAR = upper integral INTEGRAL WITH UNDERBAR	2A34 2A35 2A36 2A37 2A38 Misce 2A39 2A3A 2A3B 2A3C	⊗ ⊕ ⊕ Elland	MULTIPLICATION SIGN IN LEFT HALF CIRCLE MULTIPLICATION SIGN IN RIGHT HALF CIRCLE CIRCLED MULTIPLICATION SIGN WITH CIRCUMFLEX ACCENT MULTIPLICATION SIGN IN DOUBLE CIRCLE CIRCLED DIVISION SIGN eous mathematical operators PLUS SIGN IN TRIANGLE MINUS SIGN IN TRIANGLE MULTIPLICATION SIGN IN TRIANGLE INTERIOR PRODUCT → 230B J right floor ~ 2A3C FE00 J tall variant with narrow foot RIGHTHAND INTERIOR PRODUCT → 230A L left floor → 2319 L turned not sign ~ 2A3D FE00 L tall variant with narrow foot Z NOTATION RELATIONAL COMPOSITION → 2A1F § z notation schema composition AMALGAMATION OR COPRODUCT
2A10 2A11 2A12 2A13 2A14 2A15 2A16 2A17 2A18 2A19 2A1A 2A1B 2A1C	FFF F F F F F F F F F F F F F F F F F	INTEGRAL AVERAGE WITH SLASH CIRCULATION FUNCTION ANTICLOCKWISE INTEGRATION LINE INTEGRATION WITH RECTANGULAR PATH AROUND POLE LINE INTEGRATION WITH SEMICIRCULAR PATH AROUND POLE LINE INTEGRATION NOT INCLUDING THE POLE INTEGRAL AROUND A POINT OPERATOR → 222E ∮ contour integral QUATERNION INTEGRAL OPERATOR INTEGRAL WITH LEFTWARDS ARROW WITH HOOK INTEGRAL WITH TIMES SIGN INTEGRAL WITH INTERSECTION INTEGRAL WITH UNION INTEGRAL WITH OVERBAR = upper integral INTEGRAL WITH UNDERBAR = lower integral eous large operators	2A34 2A35 2A36 2A37 2A38 Misce 2A39 2A3A 2A3B 2A3C 2A3D	 ⊗ ⊗ ⊕ ⊕ ⊕ A A A A A A A A B B	MULTIPLICATION SIGN IN LEFT HALF CIRCLE MULTIPLICATION SIGN IN RIGHT HALF CIRCLE CIRCLED MULTIPLICATION SIGN WITH CIRCUMFLEX ACCENT MULTIPLICATION SIGN IN DOUBLE CIRCLE CIRCLED DIVISION SIGN eous mathematical operators PLUS SIGN IN TRIANGLE MINUS SIGN IN TRIANGLE MULTIPLICATION SIGN IN TRIANGLE INTERIOR PRODUCT → 230B J right floor ~ 2A3C FE00 J tall variant with narrow foot RIGHTHAND INTERIOR PRODUCT → 230A L left floor → 2319 L turned not sign ~ 2A3D FE00 L tall variant with narrow foot Z NOTATION RELATIONAL COMPOSITION → 2A1F § z notation schema composition
2A10 2A11 2A12 2A13 2A14 2A15 2A16 2A17 2A18 2A19 2A1A 2A1B 2A1C	FFF F F F F F F F F F F F F F F F F F	INTEGRAL AVERAGE WITH SLASH CIRCULATION FUNCTION ANTICLOCKWISE INTEGRATION LINE INTEGRATION WITH RECTANGULAR PATH AROUND POLE LINE INTEGRATION WITH SEMICIRCULAR PATH AROUND POLE LINE INTEGRATION NOT INCLUDING THE POLE INTEGRAL AROUND A POINT OPERATOR → 222E ∮ contour integral QUATERNION INTEGRAL OPERATOR INTEGRAL WITH LEFTWARDS ARROW WITH HOOK INTEGRAL WITH TIMES SIGN INTEGRAL WITH UNION INTEGRAL WITH OVERBAR = upper integral INTEGRAL WITH UNDERBAR = lower integral eous large operators JOIN	2A34 2A35 2A36 2A37 2A38 Misce 2A39 2A3A 2A3B 2A3C 2A3D	 ⊗ ⊗ ⊕ ⊕ ⊕ A A A A B B	MULTIPLICATION SIGN IN LEFT HALF CIRCLE MULTIPLICATION SIGN IN RIGHT HALF CIRCLE CIRCLED MULTIPLICATION SIGN WITH CIRCUMFLEX ACCENT MULTIPLICATION SIGN IN DOUBLE CIRCLE CIRCLED DIVISION SIGN eous mathematical operators PLUS SIGN IN TRIANGLE MINUS SIGN IN TRIANGLE MULTIPLICATION SIGN IN TRIANGLE INTERIOR PRODUCT → 230B J right floor ~ 2A3C FE00 J tall variant with narrow foot RIGHTHAND INTERIOR PRODUCT → 230A L left floor → 2319 L turned not sign ~ 2A3D FE00 L tall variant with narrow foot Z NOTATION RELATIONAL COMPOSITION → 2A1F § z notation schema composition AMALGAMATION OR COPRODUCT
2A10 2A11 2A12 2A13 2A14 2A15 2A16 2A17 2A18 2A19 2A1A 2A1B 2A1C	FFF F F F F F F F F F F F F F F F F F	INTEGRAL AVERAGE WITH SLASH CIRCULATION FUNCTION ANTICLOCKWISE INTEGRATION LINE INTEGRATION WITH RECTANGULAR PATH AROUND POLE LINE INTEGRATION WITH SEMICIRCULAR PATH AROUND POLE LINE INTEGRATION NOT INCLUDING THE POLE INTEGRAL AROUND A POINT OPERATOR → 222E ∮ contour integral QUATERNION INTEGRAL OPERATOR INTEGRAL WITH LEFTWARDS ARROW WITH HOOK INTEGRAL WITH TIMES SIGN INTEGRAL WITH INTERSECTION INTEGRAL WITH UNION INTEGRAL WITH OVERBAR = upper integral INTEGRAL WITH UNDERBAR = lower integral eous large operators JOIN = large bowtie	2A34 2A35 2A36 2A37 2A38 Misce 2A39 2A3A 2A3B 2A3C 2A3D	⊗ ⊕ ⊕ Hann	MULTIPLICATION SIGN IN LEFT HALF CIRCLE MULTIPLICATION SIGN IN RIGHT HALF CIRCLE CIRCLED MULTIPLICATION SIGN WITH CIRCUMFLEX ACCENT MULTIPLICATION SIGN IN DOUBLE CIRCLE CIRCLED DIVISION SIGN eous mathematical operators PLUS SIGN IN TRIANGLE MINUS SIGN IN TRIANGLE MULTIPLICATION SIGN IN TRIANGLE INTERIOR PRODUCT → 230B J right floor ~ 2A3C FE00 J tall variant with narrow foot RIGHTHAND INTERIOR PRODUCT → 230A [left floor → 2319 □ turned not sign ~ 2A3D FE00 L tall variant with narrow foot Z NOTATION RELATIONAL COMPOSITION → 2A1F § z notation schema composition AMALGAMATION OR COPRODUCT → 2210 ∐ n-ary coproduct ons and unions
2A10 2A11 2A12 2A13 2A14 2A15 2A16 2A17 2A18 2A19 2A1A 2A1B 2A1C	FFF F F F F F F F F F F F F F F F F F	INTEGRAL AVERAGE WITH SLASH CIRCULATION FUNCTION ANTICLOCKWISE INTEGRATION LINE INTEGRATION WITH RECTANGULAR PATH AROUND POLE LINE INTEGRATION WITH SEMICIRCULAR PATH AROUND POLE LINE INTEGRATION NOT INCLUDING THE POLE INTEGRAL AROUND A POINT OPERATOR → 222E ∮ contour integral QUATERNION INTEGRAL OPERATOR INTEGRAL WITH LEFTWARDS ARROW WITH HOOK INTEGRAL WITH TIMES SIGN INTEGRAL WITH INTERSECTION INTEGRAL WITH UNION INTEGRAL WITH OVERBAR = upper integral INTEGRAL WITH UNDERBAR = lower integral eous large operators JOIN = large bowtie • relational database theory	2A34 2A35 2A36 2A37 2A38 Misce 2A39 2A3A 2A3B 2A3C 2A3D	 ⊗ ⊗ ⊕ ⊕ ⊕ A A A A B B	MULTIPLICATION SIGN IN LEFT HALF CIRCLE MULTIPLICATION SIGN IN RIGHT HALF CIRCLE CIRCLED MULTIPLICATION SIGN WITH CIRCUMFLEX ACCENT MULTIPLICATION SIGN IN DOUBLE CIRCLE CIRCLED DIVISION SIGN eous mathematical operators PLUS SIGN IN TRIANGLE MINUS SIGN IN TRIANGLE MULTIPLICATION SIGN IN TRIANGLE INTERIOR PRODUCT → 230B J right floor ~ 2A3C FE00 J tall variant with narrow foot RIGHTHAND INTERIOR PRODUCT → 230A [left floor → 2319 □ turned not sign ~ 2A3D FE00 L tall variant with narrow foot Z NOTATION RELATIONAL COMPOSITION → 2A1F § z notation schema composition AMALGAMATION OR COPRODUCT → 2210 ∐ n-ary coproduct ons and unions INTERSECTION WITH DOT
2A10 2A11 2A12 2A13 2A14 2A15 2A16 2A17 2A18 2A19 2A1A 2A1B 2A1C	FFF F F F F F F F F F F F F F F F F F	INTEGRAL AVERAGE WITH SLASH CIRCULATION FUNCTION ANTICLOCKWISE INTEGRATION LINE INTEGRATION WITH RECTANGULAR PATH AROUND POLE LINE INTEGRATION WITH SEMICIRCULAR PATH AROUND POLE LINE INTEGRATION NOT INCLUDING THE POLE INTEGRAL AROUND A POINT OPERATOR → 222E ∮ contour integral QUATERNION INTEGRAL OPERATOR INTEGRAL WITH LEFTWARDS ARROW WITH HOOK INTEGRAL WITH TIMES SIGN INTEGRAL WITH INTERSECTION INTEGRAL WITH UNION INTEGRAL WITH OVERBAR = upper integral INTEGRAL WITH UNDERBAR = lower integral ECOUS large operators JOIN = large bowtie • relational database theory → 22C8 ⋈ bowtie	2A34 2A35 2A36 2A37 2A38 Misce 2A39 2A3A 2A3B 2A3C 2A3D	⊗ ⊕ ⊕ Hann	MULTIPLICATION SIGN IN LEFT HALF CIRCLE MULTIPLICATION SIGN IN RIGHT HALF CIRCLE CIRCLED MULTIPLICATION SIGN WITH CIRCUMFLEX ACCENT MULTIPLICATION SIGN IN DOUBLE CIRCLE CIRCLED DIVISION SIGN eous mathematical operators PLUS SIGN IN TRIANGLE MINUS SIGN IN TRIANGLE MULTIPLICATION SIGN IN TRIANGLE INTERIOR PRODUCT → 230B
2A10 2A11 2A12 2A13 2A14 2A15 2A16 2A17 2A18 2A19 2A1A 2A1B 2A1C Misce 2A1D	Fff; S SS FF ¥f¥] [and SI	INTEGRAL AVERAGE WITH SLASH CIRCULATION FUNCTION ANTICLOCKWISE INTEGRATION LINE INTEGRATION WITH RECTANGULAR PATH AROUND POLE LINE INTEGRATION WITH SEMICIRCULAR PATH AROUND POLE LINE INTEGRATION NOT INCLUDING THE POLE INTEGRAL AROUND A POINT OPERATOR → 222E ∮ contour integral QUATERNION INTEGRAL OPERATOR INTEGRAL WITH LEFTWARDS ARROW WITH HOOK INTEGRAL WITH TIMES SIGN INTEGRAL WITH INTERSECTION INTEGRAL WITH UNION INTEGRAL WITH OVERBAR = upper integral INTEGRAL WITH UNDERBAR = lower integral ECOUS large operators JOIN = large bowtie • relational database theory → 22C8 ⋈ bowtie → 27D7 ⋈ full outer join	2A34 2A35 2A36 2A37 2A38 Misce 2A39 2A3A 2A3B 2A3C 2A3D 2A3E 2A3F Inters 2A40	⊗ ⊗ ⊕ section ∩	MULTIPLICATION SIGN IN LEFT HALF CIRCLE MULTIPLICATION SIGN IN RIGHT HALF CIRCLE CIRCLED MULTIPLICATION SIGN WITH CIRCUMFLEX ACCENT MULTIPLICATION SIGN IN DOUBLE CIRCLE CIRCLED DIVISION SIGN eous mathematical operators PLUS SIGN IN TRIANGLE MINUS SIGN IN TRIANGLE MULTIPLICATION SIGN IN TRIANGLE INTERIOR PRODUCT → 230B
2A10 2A11 2A12 2A13 2A14 2A15 2A16 2A17 2A18 2A19 2A1A 2A1B 2A1C	Fff; S SS FF ¥f¥] [and SI	INTEGRAL AVERAGE WITH SLASH CIRCULATION FUNCTION ANTICLOCKWISE INTEGRATION LINE INTEGRATION WITH RECTANGULAR PATH AROUND POLE LINE INTEGRATION WITH SEMICIRCULAR PATH AROUND POLE LINE INTEGRATION NOT INCLUDING THE POLE INTEGRAL AROUND A POINT OPERATOR → 222E ∮ contour integral QUATERNION INTEGRAL OPERATOR INTEGRAL WITH LEFTWARDS ARROW WITH HOOK INTEGRAL WITH TIMES SIGN INTEGRAL WITH UNION INTEGRAL WITH UNION INTEGRAL WITH OVERBAR = upper integral INTEGRAL WITH UNDERBAR = lower integral eous large operators JOIN = large bowtie • relational database theory → 22C8 ⋈ bowtie → 27D7 ⋈ full outer join LARGE LEFT TRIANGLE OPERATOR	2A34 2A35 2A36 2A37 2A38 Misce 2A39 2A3A 2A3B 2A3C 2A3D	⊗ ⊕ ⊕ Hann	MULTIPLICATION SIGN IN LEFT HALF CIRCLE MULTIPLICATION SIGN IN RIGHT HALF CIRCLE CIRCLED MULTIPLICATION SIGN WITH CIRCUMFLEX ACCENT MULTIPLICATION SIGN IN DOUBLE CIRCLE CIRCLED DIVISION SIGN eous mathematical operators PLUS SIGN IN TRIANGLE MINUS SIGN IN TRIANGLE MULTIPLICATION SIGN IN TRIANGLE INTERIOR PRODUCT → 230B
2A10 2A11 2A12 2A13 2A14 2A15 2A16 2A17 2A18 2A19 2A1A 2A1B 2A1C Misce 2A1D	Fff; S SS FF ¥f¥] [and SI	INTEGRAL AVERAGE WITH SLASH CIRCULATION FUNCTION ANTICLOCKWISE INTEGRATION LINE INTEGRATION WITH RECTANGULAR PATH AROUND POLE LINE INTEGRATION WITH SEMICIRCULAR PATH AROUND POLE LINE INTEGRATION NOT INCLUDING THE POLE INTEGRAL AROUND A POINT OPERATOR → 222E ∮ contour integral QUATERNION INTEGRAL OPERATOR INTEGRAL WITH LEFTWARDS ARROW WITH HOOK INTEGRAL WITH TIMES SIGN INTEGRAL WITH UNION INTEGRAL WITH OVERBAR = upper integral INTEGRAL WITH UNDERBAR = lower integral POUND INTEGRATION INTEGRAL WITH UNDERBAR = upper integral POUND INTEGRATION INTEGRAL WITH UNDERBAR = upper integral POUND INTEGRATION INTEGRAL WITH UNDERBAR = upper integral INTEGRAL WITH UNDERBAR = lower integral POUND INTEGRATION INTEGRAL WITH UNDERBAR = upper integral INTEGRAL WITH UNDE	2A34 2A35 2A36 2A37 2A38 Misce 2A39 2A3A 2A3B 2A3C 2A3D 2A3E 2A3F Inters 2A40	⊗ ⊗ ⊕ section ∩	MULTIPLICATION SIGN IN LEFT HALF CIRCLE MULTIPLICATION SIGN IN RIGHT HALF CIRCLE CIRCLED MULTIPLICATION SIGN WITH CIRCUMFLEX ACCENT MULTIPLICATION SIGN IN DOUBLE CIRCLE CIRCLED DIVISION SIGN BEOUS MATHEMATICAL OPERATORS PLUS SIGN IN TRIANGLE MINUS SIGN IN TRIANGLE MULTIPLICATION SIGN IN TRIANGLE INTERIOR PRODUCT → 230B J right floor ~ 2A3C FE00 J tall variant with narrow foot RIGHTHAND INTERIOR PRODUCT → 230A L left floor → 2319 L turned not sign ~ 2A3D FE00 L tall variant with narrow foot Z NOTATION RELATIONAL COMPOSITION → 241F § z notation schema composition AMALGAMATION OR COPRODUCT → 2210 ∐ n-ary coproduct ONS and unions INTERSECTION WITH DOT → 2227 ∧ logical and → 27D1 ∧ and with dot UNION WITH MINUS SIGN = z notation bag subtraction
2A10 2A11 2A12 2A13 2A14 2A15 2A16 2A17 2A18 2A19 2A1A 2A1B 2A1C Misce 2A1D	Fff; S SS FF ¥f¥] [and SI	INTEGRAL AVERAGE WITH SLASH CIRCULATION FUNCTION ANTICLOCKWISE INTEGRATION LINE INTEGRATION WITH RECTANGULAR PATH AROUND POLE LINE INTEGRATION WITH SEMICIRCULAR PATH AROUND POLE LINE INTEGRATION NOT INCLUDING THE POLE INTEGRAL AROUND A POINT OPERATOR → 222E ∮ contour integral QUATERNION INTEGRAL OPERATOR INTEGRAL WITH LEFTWARDS ARROW WITH HOOK INTEGRAL WITH TIMES SIGN INTEGRAL WITH UNION INTEGRAL WITH UNION INTEGRAL WITH OVERBAR = upper integral INTEGRAL WITH UNDERBAR = lower integral eous large operators JOIN = large bowtie • relational database theory → 22C8 ⋈ bowtie → 27D7 ⋈ full outer join LARGE LEFT TRIANGLE OPERATOR	2A34 2A35 2A36 2A37 2A38 Misce 2A39 2A3A 2A3B 2A3C 2A3D 2A3E 2A3F Inters 2A40	⊗ ⊗ ⊕ section ∩	MULTIPLICATION SIGN IN LEFT HALF CIRCLE MULTIPLICATION SIGN IN RIGHT HALF CIRCLE CIRCLED MULTIPLICATION SIGN WITH CIRCUMFLEX ACCENT MULTIPLICATION SIGN IN DOUBLE CIRCLE CIRCLED DIVISION SIGN eous mathematical operators PLUS SIGN IN TRIANGLE MINUS SIGN IN TRIANGLE MULTIPLICATION SIGN IN TRIANGLE INTERIOR PRODUCT → 230B

2A42	Ū	UNION WITH OVERBAR	2A6B	∻	TILDE OPERATOR WITH RISING DOTS
2A43	Ō	INTERSECTION WITH OVERBAR			→ 223B ∻ homothetic
2A44	\square	INTERSECTION WITH LOGICAL AND	2A6C	\approx	SIMILAR MINUS SIMILAR
2A45	$\boldsymbol{\mathbb{Q}}$	UNION WITH LOGICAL OR	2A6D	≐	CONGRUENT WITH DOT ABOVE
2A46	Ú	UNION ABOVE INTERSECTION			→ 2245 ≅ approximately equal to
2A47	A A C	INTERSECTION ABOVE UNION	2A6E	<u>*</u>	EQUALS WITH ASTERISK
2A48	Ă	UNION ABOVE BAR ABOVE INTERSECTION			→ 225B * star equals
2A49	Ä	INTERSECTION ABOVE BAR ABOVE UNION	2A6F	â	ALMOST EQUAL TO WITH CIRCUMFLEX
2A4A	w	UNION BESIDE AND JOINED WITH UNION			ACCENT
2A4B	m	INTERSECTION BESIDE AND JOINED WITH	2A70	≊	APPROXIMATELY EQUAL OR EQUAL TO
2, (,)		INTERSECTION			→ 2245 ≅ approximately equal to
2A4C	U	CLOSED UNION WITH SERIFS	2A71	∓	EQUALS SIGN ABOVE PLUS SIGN
	Ŭ	→ 222A U union		•	 black stands slightly better (chess notation)
2A4D	Ω	CLOSED INTERSECTION WITH SERIFS	2A72	±	PLUS SIGN ABOVE EQUALS SIGN
27 (12	ш	→ 2229 ∩ intersection		_	 white stands slightly better (chess notation)
2A4E	П	DOUBLE SQUARE INTERSECTION	2A73	≅	EQUALS SIGN ABOVE TILDE OPERATOR
2A4F	Ш	DOUBLE SQUARE UNION	2A74		DOUBLE COLON EQUAL
2A50	₩	CLOSED UNION WITH SERIFS AND SMASH			≈ 003A: 003D=
2/130	⊚	PRODUCT	2A75	==	TWO CONSECUTIVE EQUALS SIGNS
			2/110		$\approx 003D = 003D =$
_		ds and ors	2Δ76		THREE CONSECUTIVE EQUALS SIGNS
2A51	Å	LOGICAL AND WITH DOT ABOVE	2/110		$\approx 003D = 003D = 003D =$
2A52	Ÿ	LOGICAL OR WITH DOT ABOVE	2A77	:	EQUALS SIGN WITH TWO DOTS ABOVE AND
2A53	\wedge	DOUBLE LOGICAL AND	2711		TWO DOTS BELOW
2A54	٧	DOUBLE LOGICAL OR	2A78	=	EQUIVALENT WITH FOUR DOTS ABOVE
2A55	\wedge	TWO INTERSECTING LOGICAL AND	2A79	= ≪	LESS-THAN WITH CIRCLE INSIDE
		\rightarrow 2A07 \bigwedge two logical and operator	2A79		GREATER-THAN WITH CIRCLE INSIDE
2A56	W	TWO INTERSECTING LOGICAL OR	2A7A 2A7B	» ½	
		\rightarrow 2A08 \bigvee two logical or operator			• • • • • • • • • • • • • • • • • • • •
2A57	V	SLOPING LARGE OR	2A7C		GREATER-THAN WITH QUESTION MARK ABOVE
2A58	1	SLOPING LARGE AND	2A7D	≤	LESS-THAN OR SLANTED EQUAL TO
2A59	×	LOGICAL OR OVERLAPPING LOGICAL AND	0475		→ 2264 ≤ less-than or equal to
2A5A	A	LOGICAL AND WITH MIDDLE STEM	2A7E	\geqslant	GREATER-THAN OR SLANTED EQUAL TO
2A5B	V	LOGICAL OR WITH MIDDLE STEM	0475		→ 2265 ≥ greater-than or equal to
2A5C	▼	LOGICAL AND WITH HORIZONTAL DASH	2A7F	⋖	LESS-THAN OR SLANTED EQUAL TO WITH DOT
2A5D	~	LOGICAL OR WITH HORIZONTAL DASH	0400		INSIDE
2A5E	₹	LOGICAL AND WITH DOUBLE OVERBAR	2A80	≽	GREATER-THAN OR SLANTED EQUAL TO WITH DOT INSIDE
ZAJE	/\	→ 2306 ¬ perspective	2A81	,	LESS-THAN OR SLANTED EQUAL TO WITH DOT
2A5F		LOGICAL AND WITH UNDERBAR	ZAOT	\	ABOVE
2A60	Δ	LOGICAL AND WITH DOUBLE UNDERBAR	2A82	≽	GREATER-THAN OR SLANTED EQUAL TO WITH
2A00	\triangle		2702		DOT ABOVE
2461		→ 2259 ≜ estimates	2A83	≼ਂ	LESS-THAN OR SLANTED EQUAL TO WITH DOT
2A61	\checkmark	SMALL VEE WITH UNDERBAR	2/100	~	ABOVE RIGHT
04.00	=	→ 225A ¥ equiangular to	2A84	≽	GREATER-THAN OR SLANTED EQUAL TO WITH
2A62	₹	LOGICAL OR WITH DOUBLE OVERBAR	27101	_	DOT ABOVE LEFT
2A63	$\underline{\vee}$	LOGICAL OR WITH DOUBLE UNDERBAR	2A85	<	LESS-THAN OR APPROXIMATE
		→ 225A ¥ equiangular to	2A86	×≈∧≈	GREATER-THAN OR APPROXIMATE
Misce	llan	eous mathematical operators	2A87	≈	LESS-THAN AND SINGLE-LINE NOT EQUAL TO
2A64	\triangleleft	Z NOTATION DOMAIN ANTIRESTRICTION	2,101	≠	→ 2268 ≨ less-than but not equal to
2A65	. ~	Z NOTATION RANGE ANTIRESTRICTION	2A88	≥	GREATER-THAN AND SINGLE-LINE NOT EQUAL
		→ 2332 ⊳ conical taper	2/100	7	TO
					→ 2269 ≩ greater-than but not equal to
		operators	2A89	<	LESS-THAN AND NOT APPROXIMATE
2A66	÷	EQUALS SIGN WITH DOT BELOW	2A8A	V#V#\IIV	GREATER-THAN AND NOT APPROXIMATE
		→ 2250 = approaches the limit	2A8B	≊	LESS-THAN ABOVE DOUBLE-LINE EQUAL
2A67	≐	IDENTICAL WITH DOT ABOVE	_, (0)	>	ABOVE GREATER-THAN
2A68	#	TRIPLE HORIZONTAL BAR WITH DOUBLE			→ 22DA ≨ less-than equal to or greater-than
		VERTICAL STROKE	2A8C	\geq	GREATER-THAN ABOVE DOUBLE-LINE EQUAL
		= identical and parallel to		<	ABOVE LESS-THAN
		→ 22D5 # equal and parallel to			→ 22DB ≥ greater-than equal to or less-than
0.4.00		→ 29E5 # identical to and slanted parallel	2A8D	≦	LESS-THAN ABOVE SIMILAR OR EQUAL
2A69	#	TRIPLE HORIZONTAL BAR WITH TRIPLE	2A8E	≥ ≥	GREATER-THAN ABOVE SIMILAR OR EQUAL
2464		VERTICAL STROKE	2A8F	3,5,5,5	LESS-THAN ABOVE SIMILAR ABOVE GREATER-
2A6A	∻	TILDE OPERATOR WITH DOT ABOVE		>	THAN

2A90	⋛	GREATER-THAN ABOVE SIMILAR ABOVE LESS-	2AB3	≦	PRECEDES ABOVE EQUALS SIGN
	•	THAN	2AB4	≧	SUCCEEDS ABOVE EQUALS SIGN
2A91	≦	LESS-THAN ABOVE GREATER-THAN ABOVE	2AB5	≨	PRECEDES ABOVE NOT EQUAL TO
2402	>	DOUBLE-LINE EQUAL	2AB6	*********	SUCCEEDS ABOVE NOT EQUAL TO
2A92	≧	GREATER-THAN ABOVE LESS-THAN ABOVE DOUBLE-LINE EQUAL	2AB7	≋	PRECEDES ABOVE ALMOST EQUAL TO
2A93	\	LESS-THAN ABOVE SLANTED EQUAL ABOVE	2AB8	≳	SUCCEEDS ABOVE ALMOST EQUAL TO
2/100	≽	GREATER-THAN ABOVE SLANTED EQUAL	2AB9		PRECEDES ABOVE NOT ALMOST EQUAL TO
2A94	\geqslant	GREATER-THAN ABOVE SLANTED EQUAL	2ABA	≽	SUCCEEDS ABOVE NOT ALMOST EQUAL TO
	~	ABOVE LESS-THAN ABOVE SLANTED EQUAL	2ABB		DOUBLE PRECEDES
2A95	<	SLANTED EQUAL TO OR LESS-THAN	2ABC	\gg	DOUBLE SUCCEEDS
		→ 22DC ⋜ equal to or less-than	Subse	et an	d superset relations
2A96	≽	SLANTED EQUAL TO OR GREATER-THAN	2ABD	c	SUBSET WITH DOT
0407		→ 22DD ⋝ equal to or greater-than	2ABE	∍	SUPERSET WITH DOT
2A97	€	SLANTED EQUAL TO OR LESS-THAN WITH DOT	2ABF	Ç	SUBSET WITH PLUS SIGN BELOW
2A98	≽	INSIDE SLANTED EQUAL TO OR GREATER-THAN WITH	2AC0	⊋	SUPERSET WITH PLUS SIGN BELOW
ZA30	>	DOT INSIDE	2AC1	Č	SUBSET WITH MULTIPLICATION SIGN BELOW
2A99	₹	DOUBLE-LINE EQUAL TO OR LESS-THAN	2AC2	×	SUPERSET WITH MULTIPLICATION SIGN BELOW
27100		→ 22DC < equal to or less-than	2AC3	≐	SUBSET OF OR EQUAL TO WITH DOT ABOVE
2A9A	=	DOUBLE-LINE EQUAL TO OR GREATER-THAN	2AC4	≐	SUPERSET OF OR EQUAL TO WITH DOT ABOVE
		→ 22DD > equal to or greater-than	2AC5	≦	SUBSET OF ABOVE EQUALS SIGN
2A9B	1	DOUBLE-LINE SLANTED EQUAL TO OR LESS-	2AC6	⊇	SUPERSET OF ABOVE EQUALS SIGN
	`	THAN	2AC7		SUBSET OF ABOVE TILDE OPERATOR
2A9C	€	DOUBLE-LINE SLANTED EQUAL TO OR	2AC8	\gtrsim	SUPERSET OF ABOVE TILDE OPERATOR
		GREATER-THAN	2AC9	U≋∩≋∪ŧ	SUBSET OF ABOVE ALMOST EQUAL TO
2A9D	\approx	SIMILAR OR LESS-THAN	2ACA	≋	SUPERSET OF ABOVE ALMOST EQUAL TO
		~ 2A9D FE00 with similar following the slant of the upper leg	2ACB	≢	SUBSET OF ABOVE NOT EQUAL TO ~ 2ACB FE00 ⊊ with stroke through bottom
2A9E	~	SIMILAR OR GREATER-THAN			members
ZAJL	>	~ 2A9E FE00 ≯ with similar following the slant	2ACC	⊋	SUPERSET OF ABOVE NOT EQUAL TO
		of the upper leg		7	~ 2ACC FE00 ⊋ with stroke through bottom
2A9F	≅	SIMILAR ABOVE LESS-THAN ABOVE EQUALS			members —
		SIGN	2ACD		SQUARE LEFT OPEN BOX OPERATOR
2AA0	≧	SIMILAR ABOVE GREATER-THAN ABOVE	2ACE	\neg	SQUARE RIGHT OPEN BOX OPERATOR
0444		EQUALS SIGN	2ACF		CLOSED SUBSET
2AA1	⋖	DOUBLE NESTED LESS-THAN			→ 2282 ⊂ subset of
		= absolute continuity → 226A ≪ much less-than	2AD0	D	CLOSED SUPERSET
2AA2	≽	DOUBLE NESTED GREATER-THAN	0404	_	→ 2283 ⊃ superset of
		→ 226B ≫ much greater-than	2AD1	□	CLOSED SUBSET OR EQUAL TO
2AA3	«	DOUBLE NESTED LESS-THAN WITH UNDERBAR	2AD2 2AD3	DI UN	CLOSED SUPERSET OR EQUAL TO SUBSET ABOVE SUPERSET
2AA4	_	GREATER-THAN OVERLAPPING LESS-THAN	2AD3		SUPERSET ABOVE SUBSET
		GREATER-THAN BESIDE LESS-THAN		UUU	
2AA6	$\overline{\Diamond}$	LESS-THAN CLOSED BY CURVE	2AD5 2AD6	UUU	SUBSET ABOVE SUBSET SUPERSET ABOVE SUPERSET
2AA7	D	GREATER-THAN CLOSED BY CURVE			SUPERSET BESIDE SUBSET
2AA8	Q	LESS-THAN CLOSED BY CURVE ABOVE			SUPERSET BESIDE AND JOINED BY DASH WITH
		SLANTED EQUAL	2, 100		SUBSET
2AA9	\triangleright	GREATER-THAN CLOSED BY CURVE ABOVE	Forks		
		SLANTED EQUAL			ELEMENT OF ODENUNC DOWNWARDS
2AAA	<	SMALLER THAN	2AD9	M	ELEMENT OF OPENING DOWNWARDS → 2208 ∈ element of
2AAB	>	LARGER THAN			\rightarrow 27D2 w element of opening upwards
2AAC	≤	SMALLER THAN OR EQUAL TO	2ADA	Ж	PITCHFORK WITH TEE TOP
2AAD	_	~ 2AAC FE00 € with slanted equal	ZIIDII	111	→ 22D4 m pitchfork
ZAAD	≥	LARGER THAN OR EQUAL TO ~ 2AAD FE00 ≽ with slanted equal	2ADB	ψ	TRANSVERSAL INTERSECTION
2AAE	≙	EQUALS SIGN WITH BUMPY ABOVE		.,.	→ 22D4 m pitchfork
∠ı V\L	_	→ 224F \(\text{\sigma}\) difference between	2ADC	业	FORKING
2AAF	≺	PRECEDES ABOVE SINGLE-LINE EQUALS SIGN			= not independent
_, , , , ,		→ 227C ≤ precedes or equal to			• an equational logic symbol, not a computing
2AB0	≥	SUCCEEDS ABOVE SINGLE-LINE EQUALS SIGN			science symbol
	_	→ 227D ≽ succeeds or equal to			• non-independence (original concept) is related
2AB1	⋨	PRECEDES ABOVE SINGLE-LINE NOT EQUAL TO			to forking ≡ 2ADD ψ 0338 Ø
2AB2	×≠	SUCCEEDS ABOVE SINGLE-LINE NOT EQUAL TO			<u> 2 Ιυρυ Ψ 0330 γ</u>

2ADD ψ **NONFORKING** = independent an equational logic symbol, not a computing science symbol • independence (original concept) is related to non-forking **Tacks and turnstiles** 2ADE + SHORT LEFT TACK → 22A3 H left tack 2ADF **SHORT DOWN TACK** → 22A4 T down tack 2AE0 ⊥ SHORT UP TACK → 22A5 ⊥ up tack 2AE1 2AE2 ⊨ VERTICAL BAR TRIPLE RIGHT TURNSTILE = ordinarily satisfies 2AE3 -- DOUBLE VERTICAL BAR LEFT TURNSTILE → 22A9 I⊢ forces \rightarrow 22A8 \models true DOUBLE VERTICAL BAR DOUBLE LEFT **TURNSTILE** 2AE6 ⊩ LONG DASH FROM LEFT MEMBER OF DOUBLE **VERTICAL** → 22A9 IH forces 2AE7 = SHORT DOWN TACK WITH OVERBAR → 22A4 T down tack ightarrow 2351 $\overline{\top}$ apl functional symbol up tack overbar \rightarrow 3012 $\overline{\top}$ postal mark 2AE8 ± SHORT UP TACK WITH UNDERBAR \rightarrow 22A5 \perp up tack \rightarrow 234A \perp apl functional symbol down tack underbar SHORT UP TACK ABOVE SHORT DOWN TACK 2AE9 2AEA **DOUBLE DOWN TACK** П Ш **DOUBLE UP TACK** 2AEB = independence probability theory 2AEC ¬ **DOUBLE STROKE NOT SIGN** \rightarrow 00AC \neg not sign 2AED ⊨ REVERSED DOUBLE STROKE NOT SIGN → 2310 reversed not sign **Vertical line operators** DOES NOT DIVIDE WITH REVERSED NEGATION 2AEE + SLASH → 2224 ∤ does not divide 2AEF VERTICAL LINE WITH CIRCLE ABOVE

Miscellaneous mathematical operator TRIPLE COLON OPERATOR logic → 205D: tricolon → 22EE : vertical ellipsis Relations → 22D8 << very much less-than 2AF8 ≥ TRIPLE NESTED GREATER-THAN → 22D9 >>> very much greater-than 2AF9 DOUBLE-LINE SLANTED LESS-THAN OR EQUAL € \rightarrow 2266 \leq less-than over equal to DOUBLE-LINE SLANTED GREATER-THAN OR 2AFA ≥ **EQUAL TO** → 2267 ≥ greater-than over equal to 2AFB TRIPLE SOLIDUS BINARY RELATION /// → 2AF4 ||| triple vertical bar binary relation **Operators** 2AFC III LARGE TRIPLE VERTICAL BAR OPERATOR • often n-ary → 2AF4 || triple vertical bar binary relation → 2980 || triple vertical bar delimiter 2AFD **DOUBLE SOLIDUS OPERATOR** → 2225 || parallel to 2AFE WHITE VERTICAL BAR = Dijkstra choice 2AFF N-ARY WHITE VERTICAL BAR = n-ary Dijkstra choice

= necessarily satisfies

VERTICAL LINE WITH CIRCLE BELOW

DOWN TACK WITH CIRCLE BELOW

2AF0

2AF1

Ĭ

= interleave → 2980 ||| triple vertical bar delimiter

2AF5 # TRIPLE VERTICAL BAR WITH HORIZONTAL STROKE

→ 27CA † vertical bar with horizontal stroke

	dized Va	ariation Sequences
2A3C	_	INTERIOR PRODUCT
	2A3C	
		tall variant with narrow foot
	2A3C FE00	
2A3D	ᆫ	RIGHTHAND INTERIOR PRODUCT
	2A3D	tall variant with narrow foot
2A9D	2A3D FE00	
ZASD	≥ 2A9D	SIMILAR OR LESS-THAN
	₹ ZAGD	with similar following the slant of the upper leg
2A9E	2A9D FE00	SIMILAR OR GREATER-THAN
	2A9E	
	3	with similar following the slant of the upper leg
2AAC	2A9E FE00	
	≤ 2AAC	SMALLER THAN OR EQUAL TO
	₹	with slanted equal
2AAD	2AAC FE00	LARGER THAN OR EQUAL TO
	2AAD	with slanted equal
	7	With statica equal
2ACB	2AAD FE00	SUBSET OF ABOVE NOT EQUAL TO
	2ACB	90 v 1 d - 11 v - 1
	≢	with stroke through bottom members
2ACC	2ACB FE00	SUPERSET OF ABOVE NOT EQUAL TO
	\supseteq	with stroke through bottom members
	2ACC FE00	