

NEMETH REFERENCE SHEET

Symbol	Nemeth	Description	ASCII
+	⠠⠨ Plus	Plus or Positive	+
-	⠠⠤ Minus	Minus or Negative	-
·	⠠⠨ Dot	Times dot	*
×	⠠⠨⠠⠨ Crossed, dot	Times cross	@*
±	⠠⠨⠠⠤ Decimal point, Simple fraction indicator	positive or negative (plus or minus)	+ -
=	⠠⠨⠠⠨ Equals	Is equal to	.k
≠	⠠⠨⠠⠨⠠⠨ Not, Equals	Is not equal to	/.k
<	⠠⠨⠠⠨ Less than	is less than	"k
>	⠠⠨⠠⠤ Greater than	Is greater than	.l
≤	⠠⠨⠠⠨⠠⠨ Less than, horizontal bar	is less than or equal to	"k:
≥	⠠⠨⠠⠤⠠⠨ Greater than, horizontal bar	is greater than or equal to	.l:
≈	⠠⠨⠠⠨⠠⠨⠠⠨ Simple tilde, simple tilde	is approximately equal to	@:@:

Symbol	Nemeth	Description	ASCII
%	dot 4, zero	percent	@0
{ }	dots 4-6, left parenthesis, space, dots 4-6, right parenthesis	set braces	.(.)
a : b	a, space, ratio, space, b	the ratio of a to b	a "1 b
≅	simple tilde, equals	is congruent to	@:.k
≇	negation, simple tilde, equals	is not congruent to	/@:.k
⊥	shape indicator, p	is perpendicular to	\$p
∥	shape indicator, l	is parallel to	\$l
~	simple tilde	is similar to	@:
°	superscript, hollow, dot	degree(s)	∧.*
↔ AB	multipurpose indicator, capital, a, capital, b, directly over, shape indicator, two-way horizontal arrow, termination indicator	line containing points A and B	“,a,b<\$ [33o]
— AB	multipurpose indicator, capital, a, capital, b, directly over, horizontal bar, termination indicator	line segment with endpoints A and B	“,a,b<:]

Symbol	Nemeth	Description	ASCII
\rightarrow AB	\cdot multipurpose indicator, capital, a, capital, b, directly over, shape indicator, contracted right-pointing arrow, termination indicator	ray with endpoint A and containing B	“,a,b<\$o]
\overrightarrow{AB}	\cdot multipurpose indicator, capital, a, capital, b, directly over, shape indicator, arrow with upper barb pointing right, termination indicator	vector with origin A and endpoint B	“,a,b<\$33@o]
A'	\cdot capital, a, prime	A prime	,a'
$\odot A$	\cdot shape indicator, c, interior shape modification indicator, interior dot, termination indicator, space, capital, a	circle with center A	\$c_{\$*] ,a
\frown ABC	\cdot multipurpose indicator, capital, a, capital, b, capital, c, directly over, shape indicator, a, termination indicator	arc ABC	“,a,b,c<\$a]
AB	\cdot capital, a, capital, b	length of segment AB distance between A and B	,a,b
$\triangle ABC$	\cdot shape indicator, t, space, capital, a, capital, b, capital, c	triangle with vertices A, B, and C	\$t ,a,b,c

Symbol	Nemeth	Description	ASCII
$\angle ABC$	⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠ shape indicator, angle, space, capital, a, capital, b, capital, c	Angle with sides \vec{BA} and \vec{BC}	$\$[,a,b,c$
$\angle B$	⠠⠠⠠⠠⠠⠠⠠⠠ shape indicator, angle, space, capital, b	angle with vertex B	$\$[,b$
$m\angle ABC$	⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠ m, shape indicator, angle, space, capital, a, capital, b, capital, c	measure of angle ABC	$m\$[,a,b,c$
\leftrightarrow	⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠ shape indicator, two-way horizontal arrow	corresponds to	$\$[33o$
$p \rightarrow q$	⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠ p, space, shape indicator, contracted right-pointing arrow, space, q	p implies q	$p \$o q$
$\log_a b$	⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠ l, o, g, subscript, a, space, b	the logarithm, base a, of b	$\log;a b$
a^n	⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠ a, superscript, n	the nth power of a	$a\wedge n$
$n!$	⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠ n, factorial	n factorial	$n\&$
a_n	⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠ a, subscript, n	the nth term of a sequence	$a;n$

Symbol	Nemeth	Description	ASCII
$f^{-1}x$	⠠⠒⠦⠨⠤⠇⠦⠨⠠⠠⠠ f, superscript, -, 1, multipurpose indicator, left parenthesis, x, right parenthesis	the inverse function of $f(x)$	$f^{-1}(x)$
π	⠠⠠⠠⠠⠠ greek letter indicator, p	pi (approximately 3.1416)	.p
e	⠠⠠⠠⠠⠠ english letter indicator, e	the base of natural logarithms (approximately 2.71828)	;e
(a, b)	⠠⠠⠠⠠⠠⠠⠠⠠⠠ left parenthesis, a, comma, space, b, right parenthesis	ordered pair with x-coordinate a and y-coordinate b	(a, b)
$\langle a, b \rangle$	⠠⠠⠠⠠⠠⠠⠠⠠⠠ left angle bracket, a, comma, space, b, right angle bracket	translation of a units horizontally and b units vertically	.. $\langle a, b \rangle$
\bar{A}	⠠⠠⠠⠠⠠⠠⠠ capital, a, horizontal bar	the complement of event ,a: A	,a:
${}_n C_r$	⠠⠠⠠⠠⠠⠠⠠⠠⠠ subscript, n, baseline, capital, c, subscript, r	the number of combinations of r items out of n	;n",c;r
${}_n P_r$	⠠⠠⠠⠠⠠⠠⠠⠠⠠ subscript, n, baseline, capital, p, subscript, r	the number of permutations of r items out of n	;n",p;r
$n(A)$	⠠⠠⠠⠠⠠⠠⠠⠠ n, left parenthesis, capital, a, right parenthesis	the number of ways an event A can occur	n(a)

Symbol	Nemeth	Description	ASCII
$P(A)$	⠠⠏⠠⠠⠠⠠⠠⠠ capital, p, left parenthesis, capital, a, right parenthesis	the probability of event A	,p(,a)
$P(B A)$	⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠ capital, p, left parenthesis, capital, b, space, vertical bar, space, capital, a, right parenthesis	the probability of event B, given that event A occurs	,p(,b \ ,a)
$\sin A$	⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠ s, i, n, space, capital, a	sine of $\angle A$	sin ,a
$\cos A$	⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠ c, o, s, space, capital, a	cosine of $\angle A$	cos ,a
$\tan A$	⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠ t, a, n, space, capital, a	tangent of $\angle A$	tan ,a
$\csc A$	⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠ c, s, c, space, capital, a	cosecant of $\angle A$	csc ,a
$\sec A$	⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠ s, e, c, space, capital, a	secant of $\angle A$	sec ,a
$\cot A$	⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠ c, o, t, space, capital, a	cotangent of $\angle A$	cot ,a
$\frac{1}{3}$	⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠ opening simple fraction indicator, 1, horizontal fraction line, 3, closing simple fraction indicator	fraction vertically	?1/3#
$1/3$	⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠ numeric indicator, 1, diagonal fraction line, 3	fraction horizontally	#1_/3

Symbol	Nemeth	Description	ASCII
$4 \frac{3}{8}$	⠠⠼⠠⠨⠠⠼⠠⠸⠠⠨⠠⠼ numeric indicator, 4, opening mixed number indicator, 3, horizontal fraction line, 8, closing mixed number indicator	mixed number vertically	#4_?3/8_#
$4 \frac{3}{8}$	⠠⠼⠠⠨⠠⠼⠠⠸⠠⠨⠠⠼ numeric indicator, 4, opening mixed number indicator, 3, diagonal fraction line, 8, closing mixed number indicator	mixed number horizontally	#4_?3_/8_#
x^2	⠠⠭⠠⠼⠠⠨ x, superscript, 2	exponents, x to the second power	x^2
15¢	⠠⠼⠠⠨⠠⠼⠠⠸⠠⠨⠠⠼ numeric indicator, 1, 5, cent sign	15 cents	#15@c
\$2.98	⠠⠼⠠⠨⠠⠼⠠⠸⠠⠨⠠⠼ dollar sign, 2, decimal point, 9, 8	2 dollars and 98 cents	@s2.98

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