

NEMETH QUICK REFERENCE CHART

NEMETH INDICATORS

open Nemeth ⠠⠠⠠⠠
 close Nemeth ⠠⠠⠠⠠
 single word switch ⠠⠠⠠⠠

NUMBERS

1 2 3 4 5 6 7 8 9 0
 ⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠

numeric indicator ⠠⠠⠠⠠
 mathematical comma ⠠⠠⠠⠠
 decimal point ⠠⠠⠠⠠
 punctuation indicator ⠠⠠⠠⠠

OPERATIONS (unspaced)

+ ⠠⠠⠠⠠ ± ⠠⠠⠠⠠⠠⠠⠠⠠⠠
 - ⠠⠠⠠⠠ ∓ ⠠⠠⠠⠠⠠⠠⠠⠠⠠
 × ⠠⠠⠠⠠⠠⠠⠠⠠ • ⠠⠠⠠⠠
 ÷ ⠠⠠⠠⠠⠠⠠⠠⠠ / ⠠⠠⠠⠠⠠⠠⠠⠠
 +- ⠠⠠⠠⠠⠠⠠⠠⠠ -+ ⠠⠠⠠⠠⠠⠠⠠⠠

COMPARISONS (spaced)

= ⠠⠠⠠⠠ ≠ ⠠⠠⠠⠠⠠⠠⠠⠠⠠
 ≅ ⠠⠠⠠⠠⠠⠠⠠⠠ ≡ ⠠⠠⠠⠠⠠⠠⠠⠠
 < ⠠⠠⠠⠠ ≤ ⠠⠠⠠⠠⠠⠠⠠⠠⠠
 > ⠠⠠⠠⠠ ≥ ⠠⠠⠠⠠⠠⠠⠠⠠⠠
 ~ ⠠⠠⠠⠠ ≈ ⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠
 : ⠠⠠⠠⠠ ⠠⠠⠠⠠ ⠠⠠⠠⠠⠠⠠⠠⠠⠠
 ⊥ ⠠⠠⠠⠠ ∥ ⠠⠠⠠⠠⠠⠠⠠⠠⠠
 "Not" comparison prefix ⠠⠠⠠⠠

GROUPING

() ⠠⠠⠠⠠ ⠠⠠⠠⠠
 [] ⠠⠠⠠⠠ ⠠⠠⠠⠠
 { } ⠠⠠⠠⠠ ⠠⠠⠠⠠
 | ⠠⠠⠠⠠ || ⠠⠠⠠⠠⠠⠠⠠⠠⠠
 Enlarge grouping prefix ⠠⠠⠠⠠

FRACTIONS

Simple:
 Opening ⠠⠠⠠⠠
 Horizontal line ⠠⠠⠠⠠
 Diagonal line ⠠⠠⠠⠠⠠⠠⠠⠠
 Closing ⠠⠠⠠⠠
 Mixed:
 Opening ⠠⠠⠠⠠⠠⠠⠠⠠
 Closing ⠠⠠⠠⠠⠠⠠⠠⠠
 Complex:
 Opening ⠠⠠⠠⠠⠠⠠⠠⠠
 Horizontal line ⠠⠠⠠⠠⠠⠠⠠⠠
 Closing ⠠⠠⠠⠠⠠⠠⠠⠠
 Spatial ⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠

SET THEORY

U ⠠⠠⠠⠠ ∩ ⠠⠠⠠⠠
 C ⠠⠠⠠⠠⠠⠠⠠⠠ D ⠠⠠⠠⠠⠠⠠⠠⠠
 E ⠠⠠⠠⠠ ∃ ⠠⠠⠠⠠

MODIFIED EXPRESSIONS

Multipurpose indicator ⠠⠠⠠⠠
 Directly under ⠠⠠⠠⠠
 Directly over ⠠⠠⠠⠠
 Termination ⠠⠠⠠⠠

LEVEL INDICATORS

Superscript ⠠⠠⠠⠠
 Subscript ⠠⠠⠠⠠
 Baseline ⠠⠠⠠⠠

OMISSION

General omission ⠠⠠⠠⠠
 Long dash ⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠
 Ellipsis ⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠

SHAPES

Shape ⠠⠠⠠⠠
 ∠ ⠠⠠⠠⠠
 ↔ ⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠
 → ⠠⠠⠠⠠⠠⠠⠠⠠ ⠠⠠⠠⠠⠠⠠⠠⠠
 ← ⠠⠠⠠⠠⠠⠠⠠⠠
 ↑ ⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠
 ↓ ⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠
 ○ ⠠⠠⠠⠠ △ ⠠⠠⠠⠠
 □ ⠠⠠⠠⠠ ☆ ⠠⠠⠠⠠
 ◻ ⠠⠠⠠⠠ ◼ ⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠

GREEK LETTERS

α ⠠⠠⠠⠠ β ⠠⠠⠠⠠
 γ ⠠⠠⠠⠠ ζ ⠠⠠⠠⠠
 θ ⠠⠠⠠⠠ λ ⠠⠠⠠⠠
 μ ⠠⠠⠠⠠ π ⠠⠠⠠⠠
 ω ⠠⠠⠠⠠ Δ ⠠⠠⠠⠠⠠⠠⠠⠠⠠
 Σ ⠠⠠⠠⠠⠠⠠⠠⠠ Ω ⠠⠠⠠⠠⠠⠠⠠⠠
 φ ⠠⠠⠠⠠ (Rule IV §23b)

RADICALS

Index ⠠⠠⠠⠠
 √ ⠠⠠⠠⠠
 Termination ⠠⠠⠠⠠

MISCELLANEOUS

¢ ⠠⠠⠠⠠ \$ ⠠⠠⠠⠠
 % ⠠⠠⠠⠠ ' ⠠⠠⠠⠠
 ° ⠠⠠⠠⠠ ∫ ⠠⠠⠠⠠
 ! ⠠⠠⠠⠠ * ⠠⠠⠠⠠
 ∅ ⠠⠠⠠⠠ ∞ ⠠⠠⠠⠠
 ∴ ⠠⠠⠠⠠ ∴ ⠠⠠⠠⠠
 | ⠠⠠⠠⠠ (tally marks)

EXAMPLES

$4 + 2 = \underline{\quad}$

$6 \div 3 =$

$+3 > -3$

$\$5.79$

$$\begin{array}{r} 57 \\ + 4 \\ \hline 61 \end{array}$$

$$\begin{array}{r} 1 \\ 68 \\ + 9 \\ \hline 77 \end{array}$$

$$\begin{array}{r} 3 \ 15 \\ 4 \ 5 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} \underline{62} \ r3 \\ 6)375 \end{array}$$

$x^2 + 3x - 4$



$\frac{3}{4}$

$\frac{3}{4}$

$\frac{3}{4}$

$1\frac{1}{2}$

$\frac{1}{\frac{2}{\frac{3}{4}}}$

$\sqrt{12}$

$\sqrt[3]{8}$

$\sqrt{x\sqrt{y+2}}$

90°

$\triangle ABC$

$\angle 7$

\overline{AB}

\vec{T}

\overleftrightarrow{RS}

$9.\overline{14}$

$1.\overline{3}$

$87.\underline{4}6$

$\sin x$

$\sin^2 x$

$\log_n .125$

$$\sum_{k=1}^n k^2$$

$$\int_0^\infty f(x)$$