

Like 897

8+1 46

541

Mathematical Symbols

List of all mathematical symbols and signs - meaning and examples.

- [Basic math symbols](#)
- [Geometry symbols](#)
- [Algebra symbols](#)
- [Probability & statistics symbols](#)
- [Set theory symbols](#)
- [Logic symbols](#)
- [Calculus & analysis symbols](#)
- [Number symbols](#)
- [Greek symbols](#)
- [Roman numerals](#)

Basic math symbols

| Symbol | Symbol Name | Meaning / definition | Example |
|--------|-------------------|-----------------------------------|-------------------------------|
| = | equals sign | equality | $5 = 2+3$ |
| ≠ | not equal sign | inequality | $5 \neq 4$ |
| > | strict inequality | greater than | $5 > 4$ |
| < | strict inequality | less than | $4 < 5$ |
| ≥ | inequality | greater than or equal to | $5 \geq 4$ |
| ≤ | inequality | less than or equal to | $4 \leq 5$ |
| () | parentheses | calculate expression inside first | $2 \times (3+5) = 16$ |
| [] | brackets | calculate expression inside first | $[(1+2)*(1+5)] = 18$ |
| + | plus sign | addition | $1 + 1 = 2$ |
| - | minus sign | subtraction | $2 - 1 = 1$ |
| ± | plus - minus | both plus and minus operations | $3 \pm 5 = 8 \text{ and } -2$ |
| ∓ | minus - plus | both minus and plus operations | $3 \mp 5 = -2 \text{ and } 8$ |

| | | | |
|---------------|------------------------|---|--|
| * | asterisk | multiplication | $2 * 3 = 6$ |
| \times | times sign | multiplication | $2 \times 3 = 6$ |
| . | multiplication dot | multiplication | $2 \cdot 3 = 6$ |
| \div | division sign / obelus | division | $6 \div 2 = 3$ |
| / | division slash | division | $6 / 2 = 3$ |
| - | horizontal line | division / fraction | $\frac{6}{2} = 3$ |
| mod | modulo | remainder calculation | $7 \text{ mod } 2 = 1$ |
| . | period | decimal point, decimal separator | $2.56 = 2 + 56/100$ |
| a^b | power | exponent | $2^3 = 8$ |
| $a^{\wedge}b$ | caret | exponent | $2^{\wedge} 3 = 8$ |
| \sqrt{a} | square root | $\sqrt{a} \cdot \sqrt{a} = a$ | $\sqrt{9} = \pm 3$ |
| $\sqrt[3]{a}$ | cube root | $\sqrt[3]{a} \cdot \sqrt[3]{a} \cdot \sqrt[3]{a} = a$ | $\sqrt[3]{8} = 2$ |
| $\sqrt[4]{a}$ | fourth root | $\sqrt[4]{a} \cdot \sqrt[4]{a} \cdot \sqrt[4]{a} \cdot \sqrt[4]{a} = a$ | $\sqrt[4]{16} = \pm 2$ |
| $\sqrt[n]{a}$ | n-th root (radical) | | for $n=3$, $\sqrt[3]{8} = 2$ |
| % | percent | $1\% = 1/100$ | $10\% \times 30 = 3$ |
| %o | per-mille | $1\%o = 1/1000 = 0.1\%$ | $10\%o \times 30 = 0.3$ |
| ppm | per-million | $1\text{ppm} = 1/1000000$ | $10\text{ppm} \times 30 = 0.0003$ |
| ppb | per-billion | $1\text{ppb} = 1/10000000000$ | $10\text{ppb} \times 30 = 3 \times 10^{-7}$ |
| ppt | per-trillion | $1\text{ppt} = 10^{-12}$ | $10\text{ppt} \times 30 = 3 \times 10^{-10}$ |

Geometry symbols

| Symbol | Symbol Name | Meaning / definition | Example |
|-------------------|-----------------|------------------------------|----------------------------------|
| \angle | angle | formed by two rays | $\angle ABC = 30^\circ$ |
| \measuredangle | measured angle | | $\measuredangle ABC = 30^\circ$ |
| \sphericalangle | spherical angle | | $\sphericalangle AOB = 30^\circ$ |
| \perp | right angle | $= 90^\circ$ | $\alpha = 90^\circ$ |
| $^\circ$ | degree | $1 \text{ turn} = 360^\circ$ | $\alpha = 60^\circ$ |

| | | | |
|------------------------|---------------|---|---|
| ' | arcminute | $1^\circ = 60'$ | $\alpha = 60^\circ 59'$ |
| '' | arcsecond | $1' = 60''$ | $\alpha = 60^\circ 59' 59''$ |
| \leftrightarrow_{AB} | line | infinite line | |
| \overline{AB} | line segment | line from point A to point B | |
| \overrightarrow{AB} | ray | line that start from point A | |
| $\overset{\frown}{AB}$ | arc | arc from point A to point B | $\overset{\frown}{AB} = 60^\circ$ |
| \perp | perpendicular | perpendicular lines (90° angle) | $\overline{AC} \perp \overline{BC}$ |
| \parallel | parallel | parallel lines | $\overline{AB} \parallel \overline{CD}$ |
| \cong | congruent to | equivalence of geometric shapes and size | $\Delta ABC \cong \Delta XYZ$ |
| \sim | similarity | same shapes, not same size | $\Delta ABC \sim \Delta XYZ$ |
| Δ | triangle | triangle shape | $\Delta ABC \cong \Delta BCD$ |
| $ x-y $ | distance | distance between points x and y | $ x-y = 5$ |
| π | pi constant | $\pi = 3.141592654\dots$ is the ratio between the circumference and diameter of a circle | $c = \pi \cdot d = 2 \cdot \pi \cdot r$ |
| rad | radians | radians angle unit | $360^\circ = 2\pi \text{ rad}$ |
| grad | grads | grads angle unit | $360^\circ = 400 \text{ grad}$ |

Algebra symbols

| Symbol | Symbol Name | Meaning / definition | Example |
|--------------|---------------------|-----------------------|------------------------------|
| x | x variable | unknown value to find | when $2x = 4$, then $x = 2$ |
| \equiv | equivalence | identical to | |
| \triangleq | equal by definition | equal by definition | |
| $::=$ | equal by definition | equal by definition | |
| \sim | approximately equal | weak approximation | $11 \sim 10$ |
| \approx | approximately equal | approximation | $\sin(0.01) \approx 0.01$ |
| \propto | proportional to | proportional to | $f(x) \propto g(x)$ |
| ∞ | lemniscate | infinity symbol | |

| | | | |
|---------------------|-----------------------------|--|---|
| \ll | much less than | much less than | $1 \ll 1000000$ |
| \gg | much greater than | much greater than | $1000000 \gg 1$ |
| () | parentheses | calculate expression inside first | $2 * (3+5) = 16$ |
| [] | brackets | calculate expression inside first | $[(1+2)*(1+5)] = 18$ |
| { } | braces | set | |
| $\lfloor x \rfloor$ | floor brackets | rounds number to lower integer | $\lfloor 4.3 \rfloor = 4$ |
| $\lceil x \rceil$ | ceiling brackets | rounds number to upper integer | $\lceil 4.3 \rceil = 5$ |
| $x!$ | exclamation mark | factorial | $4! = 1*2*3*4 = 24$ |
| $ x $ | single vertical bar | absolute value | $ -5 = 5$ |
| $f(x)$ | function of x | maps values of x to f(x) | $f(x) = 3x+5$ |
| $(f \circ g)$ | function composition | $(f \circ g)(x) = f(g(x))$ | $f(x)=3x, g(x)=x-1 \Rightarrow (f \circ g)(x)=3(x-1)$ |
| (a,b) | open interval | $(a,b) = \{x \mid a < x < b\}$ | $x \in (2,6)$ |
| $[a,b]$ | closed interval | $[a,b] = \{x \mid a \leq x \leq b\}$ | $x \in [2,6]$ |
| Δ | delta | change / difference | $\Delta t = t_1 - t_0$ |
| Δ | discriminant | $\Delta = b^2 - 4ac$ | |
| \sum | sigma | summation - sum of all values in range of series | $\sum x_i = x_1 + x_2 + \dots + x_n$ |
| $\sum\sum$ | sigma | double summation | $\sum_{j=1}^2 \sum_{i=1}^8 x_{i,j} = \sum_{i=1}^8 x_{i,1} + \sum_{i=1}^8 x_{i,2}$ |
| \prod | capital pi | product - product of all values in range of series | $\prod x_i = x_1 \cdot x_2 \cdot \dots \cdot x_n$ |
| e | e constant / Euler's number | $e = 2.718281828\dots$ | $e = \lim (1+1/x)^x, x \rightarrow \infty$ |
| γ | Euler-Mascheroni constant | $\gamma = 0.527721566\dots$ | |
| φ | golden ratio | golden ratio constant | |
| π | pi constant | $\pi = 3.141592654\dots$ is the ratio between the circumference and diameter of a | $c = \pi \cdot d = 2 \cdot \pi \cdot r$ |

Linear Algebra Symbols

| Symbol | Symbol Name | Meaning / definition | Example |
|------------------------|----------------------|----------------------------|-------------------------------------|
| \cdot | dot | scalar product | $a \cdot b$ |
| \times | cross | vector product | $a \times b$ |
| $A \otimes B$ | tensor product | tensor product of A and B | $A \otimes B$ |
| $\langle x, y \rangle$ | inner product | | |
| [] | brackets | matrix of numbers | |
| () | parentheses | matrix of numbers | |
| $ A $ | determinant | determinant of matrix A | |
| $\det(A)$ | determinant | determinant of matrix A | |
| $\ x \ $ | double vertical bars | norm | |
| A^T | transpose | matrix transpose | $(A^T)_{ij} = (A)_{ji}$ |
| A^\dagger | Hermitian matrix | matrix conjugate transpose | $(A^\dagger)_{ij} = (\bar{A})_{ji}$ |
| A^* | Hermitian matrix | matrix conjugate transpose | $(A^*)_{ij} = (\bar{A})_{ji}$ |
| A^{-1} | inverse matrix | $A A^{-1} = I$ | |
| $\text{rank}(A)$ | matrix rank | rank of matrix A | $\text{rank}(A) = 3$ |
| $\dim(U)$ | dimension | dimension of matrix A | $\text{rank}(U) = 3$ |

Probability and statistics symbols

| Symbol | Symbol Name | Meaning / definition | Example |
|---------------|------------------------------------|---|---------------------|
| $P(A)$ | probability function | probability of event A | $P(A) = 0.5$ |
| $P(A \cap B)$ | probability of events intersection | probability that of events A and B | $P(A \cap B) = 0.5$ |
| $P(A \cup B)$ | probability of events union | probability that of events A or B | $P(A \cup B) = 0.5$ |
| $P(A B)$ | conditional probability function | probability of event A given event B occurred | $P(A B) = 0.3$ |

| | | | |
|--------------|--|--|---|
| $f(x)$ | probability density function (pdf) | $P(a \leq x \leq b) = \int f(x) dx$ | |
| $F(x)$ | cumulative distribution function (cdf) | $F(x) = P(X \leq x)$ | |
| μ | population mean | mean of population values | $\mu = 10$ |
| $E(X)$ | expectation value | expected value of random variable X | $E(X) = 10$ |
| $E(X Y)$ | conditional expectation | expected value of random variable X given Y | $E(X Y=2) = 5$ |
| $var(X)$ | variance | variance of random variable X | $var(X) = 4$ |
| σ^2 | variance | variance of population values | $\sigma^2 = 4$ |
| $std(X)$ | standard deviation | standard deviation of random variable X | $std(X) = 2$ |
| σ_X | standard deviation | standard deviation value of random variable X | $\sigma_X = 2$ |
| \tilde{x} | median | middle value of random variable x | $\tilde{x} = 5$ |
| $cov(X,Y)$ | covariance | covariance of random variables X and Y | $cov(X,Y) = 4$ |
| $corr(X,Y)$ | correlation | correlation of random variables X and Y | $corr(X,Y) = 0.6$ |
| $\rho_{X,Y}$ | correlation | correlation of random variables X and Y | $\rho_{X,Y} = 0.6$ |
| \sum | summation | summation - sum of all values in range of series | $\sum_{i=1}^4 x_i = x_1 + x_2 + x_3 + x_4$ |
| $\sum\sum$ | double summation | double summation | $\sum_{j=1}^2 \sum_{i=1}^8 x_{i,j} = \sum_{i=1}^8 x_{i,1} + \sum_{i=1}^8 x_{i,2}$ |
| Mo | mode | value that occurs most frequently in population | |
| MR | mid-range | $MR = (x_{max}+x_{min})/2$ | |
| Md | sample median | half the population is below this value | |
| Q_1 | lower / first quartile | 25% of population are below this value | |
| Q_2 | median / second | 50% of population are | |

| | | | |
|---------------------|------------------------------|---|---------------------------------|
| | quartile | below this value = median of samples | |
| Q_3 | upper / third quartile | 75% of population are below this value | |
| \bar{x} | sample mean | average / arithmetic mean | $\bar{x} = (2+5+9) / 3 = 5.333$ |
| s^2 | sample variance | population samples variance estimator | $s^2 = 4$ |
| s | sample standard deviation | population samples standard deviation estimator | $s = 2$ |
| z_x | standard score | $z_x = (x - \bar{x}) / s_x$ | |
| $X \sim$ | distribution of X | distribution of random variable X | $X \sim N(0,3)$ |
| $N(\mu, \sigma^2)$ | normal distribution | gaussian distribution | $X \sim N(0,3)$ |
| $U(a,b)$ | uniform distribution | equal probability in range a,b | $X \sim U(0,3)$ |
| $exp(\lambda)$ | exponential distribution | $f(x) = \lambda e^{-\lambda x}, x \geq 0$ | |
| $gamma(c, \lambda)$ | gamma distribution | $f(x) = \lambda c x^{c-1} e^{-\lambda x} / \Gamma(c), x \geq 0$ | |
| $\chi^2(k)$ | chi-square distribution | $f(x) = x^{k/2-1} e^{-x/2} / (2^{k/2} \Gamma(k/2))$ | |
| $F(k_1, k_2)$ | F distribution | | |
| $Bin(n,p)$ | binomial distribution | $f(k) = {}_n C_k p^k (1-p)^{n-k}$ | |
| $Poisson(\lambda)$ | Poisson distribution | $f(k) = \lambda^k e^{-\lambda} / k!$ | |
| $Geom(p)$ | geometric distribution | $f(k) = p (1-p)^k$ | |
| $HG(N,K,n)$ | hyper-geometric distribution | | |
| $Bern(p)$ | Bernoulli distribution | | |

Combinatorics Symbols

| Symbol | Symbol Name | Meaning / definition | Example |
|--------|-------------|-----------------------------------|--|
| $n!$ | factorial | $n! = 1 \cdot 2 \cdot 3 \cdots n$ | $5! = 1 \cdot 2 \cdot 3 \cdot 4 \cdot 5 = 120$ |

| | | | |
|--------------------------|-------------|---|-----------------------------|
| nP_k | permutation | $nP_k = \frac{n!}{(n-k)!}$ | $5P_3 = 5! / (5-3)! = 60$ |
| nC_k $\binom{n}{k}$ | combination | $nC_k = \binom{n}{k} = \frac{n!}{k!(n-k)!}$ | $5C_3 = 5!/[3!(5-3)!] = 10$ |

Set theory symbols

| Symbol | Symbol Name | Meaning / definition | Example |
|---------------------|-----------------------------------|---|--|
| { } | set | a collection of elements | $A = \{3, 7, 9, 14\}$, $B = \{9, 14, 28\}$ |
| $A \cap B$ | intersection | objects that belong to set A and set B | $A \cap B = \{9, 14\}$ |
| $A \cup B$ | union | objects that belong to set A or set B | $A \cup B = \{3, 7, 9, 14, 28\}$ |
| $A \subseteq B$ | subset | subset has fewer elements or equal to the set | $\{9, 14, 28\} \subseteq \{9, 14, 28\}$ |
| $A \subset B$ | proper subset / strict subset | subset has fewer elements than the set | $\{9, 14\} \subset \{9, 14, 28\}$ |
| $A \not\subseteq B$ | not subset | left set not a subset of right set | $\{9, 66\} \not\subseteq \{9, 14, 28\}$ |
| $A \supseteq B$ | superset | set A has more elements or equal to the set B | $\{9, 14, 28\} \supseteq \{9, 14, 28\}$ |
| $A \supset B$ | proper superset / strict superset | set A has more elements than set B | $\{9, 14, 28\} \supset \{9, 14\}$ |
| $A \not\supset B$ | not superset | set A is not a superset of set B | $\{9, 14, 28\} \not\supset \{9, 66\}$ |
| 2^A | power set | all subsets of A | |
| $\mathcal{P}(A)$ | power set | all subsets of A | |
| $A = B$ | equality | both sets have the same members | $A = \{3, 9, 14\}$, $B = \{3, 9, 14\}$, $A = B$ |
| A^c | complement | all the objects that do not belong to set A | |
| $A \setminus B$ | relative complement | objects that belong to A and not to B | $A = \{3, 9, 14\}$, $B = \{1, 2, 3\}$, $A - B = \{9, 14\}$ |
| $A - B$ | relative | objects that belong to A | $A = \{3, 9, 14\}$, $B = \{1, 2, 3\}$, |

| | | | |
|----------------|--|--|---|
| | complement | and not to B | $A-B = \{9,14\}$ |
| $A \Delta B$ | symmetric difference | objects that belong to A or B but not to their intersection | $A = \{3,9,14\}$, $B = \{1,2,3\}$, $A \Delta B = \{1,2,9,14\}$ |
| $A \ominus B$ | symmetric difference | objects that belong to A or B but not to their intersection | $A = \{3,9,14\}$, $B = \{1,2,3\}$, $A \ominus B = \{1,2,9,14\}$ |
| $a \in A$ | element of | set membership | $A = \{3,9,14\}$, $3 \in A$ |
| $x \notin A$ | not element of | no set membership | $A = \{3,9,14\}$, $1 \notin A$ |
| (a,b) | ordered pair | collection of 2 elements | |
| $A \times B$ | cartesian product | set of all ordered pairs from A and B | |
| $ A $ | cardinality | the number of elements of set A | $A = \{3,9,14\}$, $ A =3$ |
| $\#A$ | cardinality | the number of elements of set A | $A = \{3,9,14\}$, $\#A=3$ |
| \aleph_0 | aleph-null | infinite cardinality of natural numbers set | |
| \aleph_1 | aleph-one | cardinality of countable ordinal numbers set | |
| \emptyset | empty set | $\emptyset = \{ \}$ | $C = \{\emptyset\}$ |
| \mathbb{U} | universal set | set of all possible values | |
| \mathbb{N}_0 | natural numbers / whole numbers set (with zero) | $\mathbb{N}_0 = \{0,1,2,3,4,\dots\}$ | $0 \in \mathbb{N}_0$ |
| \mathbb{N}_1 | natural numbers / whole numbers set (without zero) | $\mathbb{N}_1 = \{1,2,3,4,5,\dots\}$ | $6 \in \mathbb{N}_1$ |
| \mathbb{Z} | integer numbers set | $\mathbb{Z} = \{\dots -3, -2, -1, 0, 1, 2, 3, \dots\}$ | $-6 \in \mathbb{Z}$ |
| \mathbb{Q} | rational numbers set | $\mathbb{Q} = \{x \mid x = a/b, a, b \in \mathbb{Z}\}$ | $2/6 \in \mathbb{Q}$ |
| \mathbb{R} | real numbers set | $\mathbb{R} = \{x \mid -\infty < x < \infty\}$ | $6.343434 \in \mathbb{R}$ |
| \mathbb{C} | complex numbers set | $\mathbb{C} = \{z \mid z = a + bi, -\infty < a < \infty, -\infty < b < \infty\}$ | $6+2i \in \mathbb{C}$ |

Logic symbols

| Symbol | Symbol Name | Meaning / definition | Example |
|--------|-------------|----------------------|---------|
| | | | |

| | | | |
|-------------------|-----------------------|--------------------|--------------|
| \cdot | and | and | $x \cdot y$ |
| \wedge | caret / circumflex | and | $x \wedge y$ |
| $\&$ | ampersand | and | $x \& y$ |
| $+$ | plus | or | $x + y$ |
| \vee | reversed caret | or | $x \vee y$ |
| $ $ | vertical line | or | $x y$ |
| x' | single quote | not - negation | x' |
| \bar{x} | bar | not - negation | \bar{x} |
| \neg | not | not - negation | $\neg x$ |
| ! | exclamation mark | not - negation | $!x$ |
| \oplus | circled plus / oplus | exclusive or - xor | $x \oplus y$ |
| \sim | tilde | negation | $\sim x$ |
| \Rightarrow | implies | | |
| \Leftrightarrow | equivalent | if and only if | |
| \forall | for all | | |
| \exists | there exists | | |
| \nexists | there does not exists | | |
| \therefore | therefore | | |
| \because | because / since | | |

Calculus & analysis symbols

| Symbol | Symbol Name | Meaning / definition | Example |
|---------------------------------|-----------------------------|---|---|
| $\lim_{x \rightarrow x_0} f(x)$ | limit | limit value of a function | |
| ε | epsilon | represents a very small number, near zero | $\varepsilon \rightarrow 0$ |
| e | e constant / Euler's number | $e = 2.718281828\dots$ | $e = \lim_{x \rightarrow \infty} (1+1/x)^x$, |
| y' | derivative | derivative - Leibniz's notation | $(3x^3)' = 9x^2$ |
| y'' | second derivative | derivative of derivative | $(3x^3)'' = 18x$ |

| | | | |
|--------------------------------------|--------------------------------|--|-------------------------------------|
| $y^{(n)}$ | nth derivative | n times derivation | $(3x^3)^{(3)} = 18$ |
| $\frac{dy}{dx}$ | derivative | derivative - Lagrange's notation | $d(3x^3)/dx = 9x^2$ |
| $\frac{d^2y}{dx^2}$ | second derivative | derivative of derivative | $d^2(3x^3)/dx^2 = 18x$ |
| $\frac{d^n y}{dx^n}$ | nth derivative | n times derivation | |
| \dot{y} | time derivative | derivative by time - Newton notation | |
| \ddot{y} | time second derivative | derivative of derivative | |
| $\frac{\partial f(x,y)}{\partial x}$ | partial derivative | | $\partial(x^2+y^2)/\partial x = 2x$ |
| \int | integral | opposite to derivation | |
| \iint | double integral | integration of function of 2 variables | |
| \iiint | triple integral | integration of function of 3 variables | |
| \oint | closed contour / line integral | | |
| $\oint\!\oint$ | closed surface integral | | |
| $\oint\!\oint\!\oint$ | closed volume integral | | |
| $[a,b]$ | closed interval | $[a,b] = \{x \mid a \leq x \leq b\}$ | |
| (a,b) | open interval | $(a,b) = \{x \mid a < x < b\}$ | |
| i | imaginary unit | $i \equiv \sqrt{-1}$ | $z = 3 + 2i$ |
| z^* | complex conjugate | $z = a+bi \rightarrow z^* = a-bi$ | $z^* = 3 + 2i$ |
| \overline{z} | complex conjugate | $z = a+bi \rightarrow \overline{z} = a-bi$ | $\overline{z} = 3 + 2i$ |
| ∇ | nabla / del | gradient / divergence operator | $\nabla f(x,y,z)$ |
| \vec{x} | vector | | |
| \hat{x} | unit vector | | |
| $x * y$ | convolution | $y(t) = x(t) * h(t)$ | |

| | | |
|---------------|-------------------|-----------------------------------|
| \mathcal{L} | Laplace transform | $F(s) = \mathcal{L}\{f(t)\}$ |
| \mathcal{F} | Fourier transform | $X(\omega) = \mathcal{F}\{f(t)\}$ |
| δ | delta function | |
| ∞ | lemniscate | infinity symbol |

Numeral symbols

| Name | European | Roman | Hindu Arabic | Hebrew |
|-----------|----------|-------|--------------|--------|
| zero | 0 | | . | |
| one | 1 | I | ۱ | א |
| two | 2 | II | ۲ | ב |
| three | 3 | III | ۳ | ג |
| four | 4 | IV | ۴ | ד |
| five | 5 | V | ۵ | ה |
| six | 6 | VI | ۶ | ו |
| seven | 7 | VII | ۷ | ז |
| eight | 8 | VIII | ۸ | ח |
| nine | 9 | IX | ۹ | ט |
| ten | 10 | X | ۱۰ | י |
| eleven | 11 | XI | ۱۱ | יא |
| twelve | 12 | XII | ۱۲ | יב |
| thirteen | 13 | XIII | ۱۳ | יג |
| fourteen | 14 | XIV | ۱۴ | יד |
| fifteen | 15 | XV | ۱۵ | טו |
| sixteen | 16 | XVI | ۱۶ | טז |
| seventeen | 17 | XVII | ۱۷ | טז |
| eighteen | 18 | XVIII | ۱۸ | יט |
| nineteen | 19 | XIX | ۱۹ | יט |
| twenty | 20 | XX | ۲۰ | כ |
| thirty | 30 | XXX | ۳۰ | ל |
| fourty | 40 | XL | ۴۰ | מ |
| fifty | 50 | L | ۵۰ | נ |

| | | | | |
|-------------|-----|------|---|---|
| sixty | 60 | LX | Ϛ | Ϛ |
| seventy | 70 | LXX | Ϛ | Ϛ |
| eighty | 80 | LXXX | Ϛ | Ϛ |
| ninety | 90 | XC | Ϛ | Ϛ |
| one hundred | 100 | C | Ϛ | Ϛ |

Greek alphabet letters

| Greek Symbol | | Greek Letter Name | English Equivalent | Pronunciation |
|--------------|------------|-------------------|--------------------|---------------|
| Upper Case | Lower Case | | | |
| A | α | Alpha | a | al-fa |
| B | β | Beta | b | be-ta |
| Γ | γ | Gamma | g | ga-ma |
| Δ | δ | Delta | d | del-ta |
| E | ε | Epsilon | e | ep-si-lon |
| Z | ζ | Zeta | z | ze-ta |
| H | η | Eta | h | eh-ta |
| Θ | θ | Theta | th | te-ta |
| I | ι | Iota | i | io-ta |
| K | κ | Kappa | k | ka-pa |
| Λ | λ | Lambda | l | lam-da |
| M | μ | Mu | m | m-yoo |
| N | ν | Nu | n | noo |
| Ξ | ξ | Xi | x | x-ee |
| O | ο | Omicron | o | o-mee-c-ron |
| Π | π | Pi | p | pa-yee |
| P | ρ | Rho | r | row |
| Σ | σ | Sigma | s | sig-ma |
| T | τ | Tau | t | ta-oo |

| | | | | |
|---|---|---------|----|------------|
| Y | v | Upsilon | u | oo-psi-lon |
| Φ | φ | Phi | ph | f-ee |
| X | χ | Chi | ch | kh-ee |
| Ψ | ψ | Psi | ps | p-see |
| Ω | ω | Omega | o | o-me-ga |

Roman numerals

| Number | Roman numeral |
|--------|---------------|
| 0 | not defined |
| 1 | I |
| 2 | II |
| 3 | III |
| 4 | IV |
| 5 | V |
| 6 | VI |
| 7 | VII |
| 8 | VIII |
| 9 | IX |
| 10 | X |
| 11 | XI |
| 12 | XII |
| 13 | XIII |
| 14 | XIV |
| 15 | XV |
| 16 | XVI |
| 17 | XVII |
| 18 | XVIII |
| 19 | XIX |
| 20 | XX |
| 30 | XXX |
| 40 | XL |
| 50 | L |

| | |
|---------|----------------|
| 60 | LX |
| 70 | LXX |
| 80 | LXXX |
| 90 | XC |
| 100 | C |
| 200 | CC |
| 300 | CCC |
| 400 | CD |
| 500 | D |
| 600 | DC |
| 700 | DCC |
| 800 | DCCC |
| 900 | CM |
| 1000 | M |
| 5000 | \overline{V} |
| 10000 | \overline{X} |
| 50000 | \overline{L} |
| 100000 | \overline{C} |
| 500000 | \overline{D} |
| 1000000 | \overline{M} |

See also

- [Algebra symbols](#)
- [Geometry symbols](#)
- [Statistical symbols](#)
- [Logic symbols](#)
- [Set theory symbols](#)
- [Calculus & analysis symbols](#)
- [Number symbols](#)
- [Greek alphabet symbols](#)
- [Roman numerals](#)
- [Infinity symbol](#)
- [Math calculators](#)

[Electrical Symbols](#)



www.smartdraw.com

Easy Electrical Diagram Software See Examples. Free
Download!

Write how to improve this page

Your Name

Name

your@email.com

E-mail

Submit Feedback



MATH SYMBOLS

- Basic math symbols
- Algebra symbols
- Geometry symbols
- Statistical symbols
- Logic symbols
- Set symbols
- Calculus symbols
- Number symbols
- Greek symbols
- Roman numerals

RAPID TABLES

- Add to Favorites
- Recommend Site
- Send Feedback
- About

[Home](#) | [Web](#) | [Math](#) | [Electricity](#) | [Calculators](#) | [Converters](#)

© 2013 RapidTables.com | [About](#) | [Terms of Use](#) | [Privacy Policy](#)
