

Mathematical Symbols

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MATH SYMBOLS

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Basic math symbols

Symbol	Symbol Name	Meaning / definition	Example
=	equals sign	equality	$5 = 2+3$ 5 is equal to 2+3
\neq	not equal sign	inequality	$5 \neq 4$ 5 is not equal to 4
Symbol	Symbol Name	Meaning / definition	Example

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\approx	approximately equal	approximation	$\sin(0.01) \approx 0.01$, $x \approx y$ means x is approximately equal to y
$>$	strict inequality	greater than	$5 > 4$ 5 is greater than 4
$<$	strict inequality	less than	$4 < 5$ 4 is less than 5
\geq	inequality	greater than or equal to	$5 \geq 4$, $x \geq y$ means x is greater than or equal to y
\leq	inequality	less than or equal to	$4 \leq 5$, $x \leq y$ means x is less than or equal to y
$()$	parentheses	calculate expression inside first	$2 \times (3+5) = 16$
$[]$	brackets	calculate expression inside first	$[(1+2) \times (1+5)] = 18$
$+$	plus sign	addition	$1 + 1 = 2$
$-$	minus sign	subtraction	$2 - 1 = 1$
\pm	plus - minus	both plus and minus operations	$3 \pm 5 = 8$ or -2
\mp	minus - plus	both minus and plus operations	$3 \mp 5 = -2$ or 8
$*$	asterisk	multiplication	$2 * 3 = 6$
\times	times sign	multiplication	$2 \times 3 = 6$
\cdot	multiplication	multiplication	$2 \cdot 3 = 6$
Symbol	Symbol Name	Meaning / definition	Example

\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	$7 \bmod 2 = 1$
.	period	decimal point, decimal separator	$2.56 = 2 + 56/100$
a^b	power	exponent	$2^3 = 8$
a^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 $n=3$, $\sqrt[n]{8} = 2$
%	percent	$1\% = 1/100$	$10\% \times 30 = 3$
‰	per-mille	$1\text{‰} = 1/1000 = 0.1\%$	$10\text{‰} \times 30 = 0.3$
ppm	per-million	$1\text{ppm} = 1/1000000$	$10\text{ppm} \times 30 = 0.0003$
ppb	per-billion	$1\text{ppb} = 1/1000000000$	$10\text{ppb} \times 30 = 3 \times 10^{-7}$
Symbol	Symbol Name	Meaning / definition	Example

ppt	$\text{ppt} = 10$	$\text{ppt} = 10$	$\text{ppt} = 10$
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Geometry symbols

Symbol	Symbol Name	Meaning / definition	Example
\angle	angle	formed by two rays	$\angle ABC = 30^\circ$
\sphericalangle	measured angle		$\sphericalangle ABC = 30^\circ$
\sphericalangle	spherical angle		$\sphericalangle AOB = 30^\circ$
\perp	right angle	$= 90^\circ$	$\alpha = 90^\circ$
$^\circ$	degree	1 turn = 360°	$\alpha = 60^\circ$
deg	degree	1 turn = 360deg	$\alpha = 60\text{deg}$
'	prime	arcminute, $1^\circ = 60'$	$\alpha = 60^\circ 59'$
"	double prime	arcsecond, $1' = 60''$	$\alpha = 60^\circ 59' 59''$
\overleftrightarrow{AB}	line	infinite line	
\overline{AB}	line segment	line from point A to point B	
\overrightarrow{AB}	ray	line that start from point A	
\widehat{AB}	arc	arc from point A to point B	$\widehat{AB} = 60^\circ$
\perp	perpendicular	perpendicular lines (90° angle)	$\overline{AC} \perp \overline{BC}$
Symbol	Symbol Name	Meaning / definition	Example

\cong	congruent to	equivalence of geometric shapes and size	$\triangle ABC \cong \triangle XYZ$
\sim	similarity	same shapes, not same size	$\triangle ABC \sim \triangle XYZ$
\triangle	triangle	triangle shape	$\triangle ABC \cong \triangle BCD$
$ x-y $	distance	distance between points x and y	$ x-y = 5$
π	pi constant	$\pi = 3.141592654...$ 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	$360^\circ = 2\pi$ rad
c	radians	radians angle unit	$360^\circ = 2\pi^c$
grad	gradians / gons	grads angle unit	$360^\circ = 400$ grad
g	gradians / gons	grads angle unit	$360^\circ = 400^g$

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	
Symbol	Symbol Name	Meaning / definition	Example

\sim	approximately equal	weak approximation	$11 \sim 10$
\approx	approximately equal	approximation	$\sin(0.01) \approx 0.01$
\propto	proportional to	proportional to	$y \propto x$ when $y = kx$, k constant
∞	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	$(f \circ g)(x) = f(g(x))$	$f(x)=3x, g(x)=x-1 \Rightarrow (f \circ g)(x)=3(x-1)$
Symbol	Symbol Name	Meaning / definition	Example

(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	$\gamma = 0.5772156649\dots$	
ϕ	golden ratio	golden ratio constant	
π	pi constant	$\pi = 3.141592654\dots$ is the ratio between the circumference and diameter of a circle	$c = \pi \cdot d = 2 \cdot \pi \cdot r$

Linear Algebra Symbols

Symbol	Symbol Name	Meaning / definition	Example
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\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	$\dim(U) = 3$

Probability and statistics symbols

Symbol Symbol	Symbol Name	Meaning / definition Meaning / definition	Example Example
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$P(A)$	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)	$P(a \leq x \leq b) = \int_a^b f(x) dx$	
$F(x)$	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	$std(X) = 2$
Symbol	Symbol Name	Meaning / definition	Example

		Variable X	
\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 quartile	50% of population are below this value = median of samples	
Q_3	upper / third quartile	75% of population are below this value	
Symbol	Symbol Name	Meaning / definition	Example

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	$f(k) = p(1-p)^k$	
Symbol	Symbol Name	Meaning / definition	Example

$Geo(p)$	geometric distribution		
$Bern(p)$	Bernoulli distribution		

Combinatorics Symbols

Symbol	Symbol Name	Meaning / definition	Example
$n!$	factorial	$n! = 1 \cdot 2 \cdot 3 \cdot \dots \cdot n$	$5! = 1 \cdot 2 \cdot 3 \cdot 4 \cdot 5 = 120$
${}_nP_k$	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	$A \cup B = \{3,7,9,14,28\}$
			$(A \cap B) \cup (A \cap B) = \{9,14\}$
Symbol	Symbol Name	Meaning / definition	Example

			{3,9,14,28}
$A \subset B$	proper subset / strict subset	A is a subset of B, but A is not equal to B.	$\{9,14\} \subset \{9,14,28\}$
$A \not\subset B$	not subset	set A is not a subset of set B	$\{9,66\} \not\subset \{9,14,28\}$
$A \supseteq B$	superset	A is a superset of B. set A includes set B	$\{9,14,28\} \supseteq \{9,14,28\}$
$A \supset B$	proper superset / strict superset	A is a superset of B, but B is not equal to A.	$\{9,14,28\} \supset \{9,14\}$
$A \not\supset B$	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 complement	objects that belong to A and not to B	$A = \{3,9,14\},$ $B = \{1,2,3\},$ $A-B = \{9,14\}$
Symbol	Symbol Name	Meaning / definition	Example

$A \Delta B$	symmetric difference	objects that belong to A or B but not to their intersection	$\{3,9,14\}$, $B = \{1,2,3\}$, $A \Delta B = \{1,2,9,14\}$
$A \ominus B$	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, belongs to	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}	natural numbers / whole numbers		
Symbol	Symbol Name	Meaning / definition	Example

\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'
\overline{x}	bar	not - negation	\overline{x}
\neg	not	not - negation	$\neg x$
$!$	exclamation mark	not - negation	$!x$
Symbol	Symbol Name	Meaning / definition	Example

\oplus	circled plus / oplus	exclusive or - xor	$x \oplus y$
\sim	tilde	negation	$\sim x$
\Rightarrow	implies		
\Leftrightarrow	equivalent	if and only if (iff)	
\leftrightarrow	equivalent	if and only if (iff)	
\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	$e = 2.718281828...$	$e = \lim_{x \rightarrow \infty} (1 + 1/x)^x$
y'	derivative	derivative - Lagrange's notation	$(3x^3)' = 9x^2$
y''	second derivative	derivative of derivative	$(3x^3)'' = 18x$
Symbol	Symbol Name	Meaning / definition	Example

$y^{(n)}$	nth derivative	n times derivation	$(3x^3)^{(3)} = 18$
$\frac{dy}{dx}$	derivative	derivative - Leibniz'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's notation	
\ddot{y}	time second derivative	derivative of derivative	
$D_x y$	derivative	derivative - Euler's notation	
$D_x^2 y$	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	$\int f(x)dx$
\iint	double integral	integration of function of 2 variables	$\iint f(x,y)dxdy$
\iiint	triple integral	integration of function of 3 variables	$\iiint f(x,y,z)dxdydz$
\oint	closed contour / line integral		
\oiint	closed surface integral		
\oiint	closed volume integral		
Symbol	Symbol Name	Meaning / definition	Example

$[a,b]$	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	$z = a+bi \rightarrow z^*=a-bi$	$z^* = 3 - 2i$
\bar{z}	complex conjugate	$z = a+bi \rightarrow \bar{z} = a-bi$	$\bar{z} = 3 - 2i$
∇	nabla / del	gradient / divergence operator	$\nabla f(x,y,z)$
\overrightarrow{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	Western Arabic	Roman	Eastern Arabic	Hebrew
zero	0		٠	
one	1	I	١	א
two	2	II	٢	ב
Name	Western Arabic	Roman	Eastern Arabic	Hebrew

four	4	IV	٤	ד
five	5	V	٥	ה
six	6	VI	٦	ו
seven	7	VII	٧	ז
eight	8	VIII	٨	ח
nine	9	IX	٩	ט
ten	10	X	١٠	י
eleven	11	XI	١١	יא
twelve	12	XII	١٢	יב
thirteen	13	XIII	١٣	יג
fourteen	14	XIV	١٤	יד
fifteen	15	XV	١٥	טו
sixteen	16	XVI	١٦	טז
seventeen	17	XVII	١٧	יז
eighteen	18	XVIII	١٨	יח
nineteen	19	XIX	١٩	יט
twenty	20	XX	٢٠	כ
thirty	30	XXX	٣٠	ל
forty	40	XL	٤٠	מ
fifty	50	L	٥٠	נ
sixty	60	LX	٦٠	ס
seventy	70	LXX	٧٠	ע
Name	Western Arabic	Roman	Eastern Arabic	Hebrew

ninety	90	XC	Ϡ	ϣ
one hundred	100	C	ϠϠ	ϣ̅

Greek alphabet letters

Upper Case Letter	Lower Case Letter	Greek Letter Name	English Equivalent	Letter Name Pronounce
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
Ο	ο	Omicron	o	o-mee-c-ron
Π	π	Pi	p	pa-yee
Ρ	ρ	Rho	r	row
Σ	σ	Sigma	s	sig-ma
Τ	τ	Tau	t	ta-oo
Υ	υ	Upsilon	u	oo-psi-lon
Φ	φ	Phi	ph	f-ee
Χ	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
Number	Roman numeral

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
Number	Roman numeral

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}

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