



ALGEBRAIC AND COMMON LANGUAGE

ALGEBRAIC LANGUAGE	COMMON LANGUAGE
x	Any number
$a + b$	The sum or addition of two numbers
$b - c$	The difference of two numbers
x^2	The square of a number
y^3	The cube of a number
$(c)(d)$	The product of two numbers
$\frac{a}{b}$	The quotient of two numbers
$2a$	Double a number
$3t$	Triple a number
$\frac{b}{2}$	Half a number
$\frac{w}{3}$	The third part of a number
$\frac{x}{4}$	The fourth part of a number



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ALGEBRAIC AND COMMON LANGUAGE

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ALGEBRAIC LANGUAGE	COMMON LANGUAGE
$(a + b)^2$	The square of the sum of two numbers
$(x - y)^3$	The cube of the difference of two numbers
$a^2 + 2ab + b^2$	Perfect Square Trinomial
$a^2 - b^2$	Difference of two squares
$(a + b)(a - b)$	Binomial product of the sum and difference of two terms (Conjugate binomials)
$a^3 - b^3$	Difference of two cubes
$a^3 + b^3$	Sum of two cubes



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MATHEMATICAL SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
+	Sum, addition	\in	Belongs to
-	Difference, subtraction	\notin	Does not belong to
\times	Multiplication, Product	\Leftrightarrow	If and only if
$\div, /$	Division, quotient	\Rightarrow	Implies
$\sqrt{\quad}$	Square root	\subset	Proper subset of
$\sqrt[3]{\quad}$	Cube root	$\not\subset$	Not a proper subset of
$\sqrt[4]{\quad}$	Fourth root	\subseteq	Improper subset of
%	Percent	$\not\subseteq$	Not an improper subset of
\therefore	Therefore	\wedge	and
\forall	For all	\vee	or
\neq	Not equal	U	Universal Set
\approx	Approximately equal	$\emptyset = \{\}$	Empty set
\cong	Congruence	\cup	Union
\equiv	Identity	\cap	Intersection
=	Equal	$\bar{A} = A^c = A'$	Complement of the set A
∞	Infinity		Parallel to
$>$	Greater than	\perp	Perpendicular to
$<$	Less than	\sphericalangle	Angle
\geq	Greater or equal than	L	Right angle
\leq	Less or equal than	\overline{AB}	Line Segment AB
\exists	There exists	()	Parenthesis
\nexists	Does not exist	[]	Brackets
	Such that	{ }	Braces



MATHEMATICAL SYMBOLS



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SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
N	Set of Natural numbers	π	Irrational number Pi=3.14159...
I	Set of Integers	e	Irrational number $e = 2.718281 \dots$
W	Set of whole numbers	φ	Irrational number, golden ratio $\varphi = \frac{1+\sqrt{5}}{2}$
Y	Set of Negative Integers	$i = \sqrt{-1}$	Imaginary Unit
Q	Set of Rational numbers	ai	Pure Imaginary Number
\bar{Q}	Set of Irrational Numbers	$z = a + bi$	Complex Number
R	Set of Real numbers	$!$	Factorial
C	Set of Complex Numbers	Σ	Summation
		Δ	Determinant



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