Spoken mathematics

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Spoken
mathematics

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Greek
Alphabet

BASIC
SYMBOLS

Algebra

Symbol	Speak
$\rightarrow$	arrow to the right or approaches
$\leftarrow$	arrow to the left or withdraws
$\uparrow$	arrow pointing up or upward arrow
$\downarrow$	arrow pointing down or downward arrow
$\vec{a}$	vector a
$\cup$	union
$\cap$	intersection
$\subset$	contained in or subset of
$\supset$	contains
$\Rightarrow$	implies
$\Leftrightarrow$	equivalent to
$\exists$	there exists or there is
$\forall$	for every

Section 3. Algebra

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BASIC
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Algebra

Expression	Speak
$a + b$	a plus b
$a + b + c$	a plus b plus c
$a - b$	a minus b
$-a - b$	minus a minus b
$a + b - c$	a plus b minus c
$a - b - c$	a minus b minus c
$a - (b + c)$	a minus the sum b plus c or a minus the quantity b plu
$a - (b - c)$	a minus the difference b minus c or a minus the quantity b r
$a - (-b - c)$	a minus the quantity minus b minus c
$a - (b + c) - d$	a minus the quantity b plus c end of quantity minus d
$a - b - (c - d)$	a minus b minus the difference c minus d
$a \times b$ or $a.b$ or ab	a times b or a cross b or the product of a and b or a multipli
$a(b + c)$	a times the sum b plus c or a times the quantity b plus

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Expression	Speak
$\frac{1}{2}$	one half or one over two
$\frac{1}{3}$	one third or one over three
$\frac{1}{n}$	one over n
$\frac{a}{d}$ or a/d	a over d or a divided by d
$\frac{a+b}{d}$	the quantity a plus b divided by d
$a + \frac{b}{d}$	a plus the fraction b over d
$a + \frac{b}{c+d}$	a plus the fraction b divided by the quantity c plus d
$\frac{a+b}{c} + d$	the quantity a plus b over c, that fraction plus d
$\frac{a}{b} + \frac{c}{d}$	the fraction a over b plus the fraction c over d
$\frac{\frac{a}{b}}{d}$	a over b, that fraction divided by d
$\frac{a}{\frac{c}{d}}$	a divided by the fraction c over d
$\frac{c}{d}(a + b)$	the fraction c over d times the sum a plus b
$\frac{a}{\frac{b}{c+d}}$	a divided by the fraction b over the quantity c plus d

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Expression	Speak
$ay + bx + c = 0$	$a\,y$ plus $b\,x$ plus c equals ze
$y = mx + b$	y equals $m\,x$ plus b
$y = ax^2 + bx + c$	y equals $a\,x$ squared plus $b\,x$ p
$x^2 + y^2 = r^2$	x squared plus y squared equals r
$y = \pm\sqrt{r^2 - x^2}$	y equals plus or minus square root of the difference r
$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$	the fraction x squared over a squared plus the fraction y s
a^x	a to the x or a raised to the x p
$e^x + y$	e to the x power plus y
$a_1 + a_2 + \ldots + a_n$	a sub 1 plus a sub 2 plus dot dot dot p
$a_1 \times a_2 \times \ldots \times a_n$	a sub 1 times a sub 2 times dot dot dot
$p(x)$	p of x
$p(x) = 3x^2 + 2x - 4$	p of x equals 3 x squared plus 2 x
$q(x) = x^3 - 8$	q of x equals x cubed minus

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Here are some French mathematical terms beginning with the letter B, with their English translations:

barycentre = barycenter

base = basis

base de numération =number system

bijectif = bijective

bilinéaire = bilinear

binôme = binomial

bissectrice =angle bisector

borne = bound

borne inférieure =greatest lower bound

borne inférieure =infimum

borne supérieure =least upper bound

borne supérieure =supremum

borné =bounded

boucle (algorithme) =loop