

本文档为微信公众号英文茶馆(myenglishteatime)的原创文章，仅供交流学习使用，不得转载，严禁用于商业用途。

## 数学符号篇

<u>Symbol</u>		<u>Speak</u>
+	or	plus positive
-	or	minus negative
×	or	multiplies times
÷ /		divided by
±		plus or minus
=	or	equals equal to
≠	or	does not equal not equal
<		less than
≪		much less than
>		greater than
≫		much greater than
(	or	open parenthesis left parenthesis
)	or	closed parenthesis right parenthesis
[	or	open bracket left bracket
]	or	closed bracket right bracket
{	or	open brace left brace
}	or	closed brace right brace
a		absolute value of $a$
$a'$		$a$ prime
$a''$		$a$ double prime
$a^n$	or	$a$ superscript $n$ $a$ to the $n$

$\bar{a}$		$a$ bar
$a^*$	or	$a$ star $a$ super asterisk
$a_n$	or	$a$ subscript $n$ $a$ sub $n$
$\sqrt{a}$		square root of $a$
$\sqrt[3]{a}$		cube root of $a$
$\sqrt[n]{a}$		$n$ th root of $a$
$d/dx$	or or	$d$ by $d x$ $d$ by $d x$ the derivative with respect to $x$
$\partial/\partial x$	or	the partial derivative with respect to $x$ partial over partial $x$
$a^\circ$		$a$ degrees
$\therefore$		therefore
$\because$	or	since because
$\dots$		dot, dot, dot
$:$		is to
$\sim$		tilde Example: $\tilde{n}$ is read n tilde.
$\rightarrow$		Arrow to the right
$\uparrow$	or	Arrow pointing up Upward arrow
$\downarrow$		Arrow pointing down Downward arrow
$\subset$	or	Contained in Subset of
$\supset$		contains
$\Rightarrow$		implies
$\Leftrightarrow$		equivalent
$\propto$		proportional to
$\#$	or or	sharp pound sign number sign

## 数学表达式篇

<u>Expression</u>	<u>Speak</u>
$a - (b + c)$	$a$ minus the difference $b$ minus $c$
$a - (-b - c)$	$a$ minus the quantity minus $b$ minus $c$
$a - (b + c) - d$	$a$ minus the quantity $b$ plus $c$ end of quantity minus $d$
$ab$	$a$ $b$ or $a$ times $b$
$a \cdot -b$	$a$ times minus $b$
$a(b + c)$	$a$ times the sum $b$ plus $c$
$ab - c$	$a$ $b$ minus $c$
$\frac{1}{3}$	one third or one over three
$\frac{a+b}{c} + d$	the quantity $a$ plus $b$ over $c$ , that fraction plus $d$
$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$	the fraction $x$ squared over $a$ squared plus the fraction $y$ squared over $b$ squared equals 1
$ax^2 + bxy + cy^2 + dx + ey + f = 0$	$a$ $x$ squared plus $b$ $x$ $y$ squared plus $d$ $x$ plus $e$ $y$ plus $f$ equals zero
$a^x$	$a$ to the $x$ or $a$ raised to the $x$ power
$\log_b a$	log to the base $b$ of $a$
$\log_{10} 3 \cdot 4$	log to the base 10 of the product 3 times 4
$\log_e \frac{2}{5}$	log to the base $e$ of the fraction 2 over 5 or log to the base $e$ of the ratio 2 over 5
$\ln x$	the natural log of $x$ or $\ln$ of $x$
$a_1 + a_2 + \dots + a_n$	$a$ sub 1 plus $a$ sub 2 plus dot dot dot plus $a$ sub $n$
$p(x)$	$p$ of $x$
$p(x) = 3x^2 + 2x - 4$	$p$ of $x$ equals 3 $x$ squared plus 2 $x$ minus 4
$q(x) = x^3 - 8$	$q$ of $x$ equals $x$ cubed minus 8
$p(x) = a_0x^n + a_1x^{n-1} + \dots + a_{n-1}x + a_n$	$p$ of $x$ equals $a$ sub zero $x$ to the $n$ plus $a$ sub 1 $x$ to the $n$ minus 1 plus dot dot dot plus $a$ sub $n$ minus 1 $x$ plus $a$ sub $n$
$\sigma_x$	sigma sub $x$

$\sigma_{xy}$	sigma sub $x$ $y$
$\bar{x}$	$x$ bar
$\mu$	mu
$\mu_2$	mu sub two
$\mu_r$	mu sub $r$
$\beta_1$	beta sub one
$\beta_2$	beta sub two
$\eta$	eta
$Q_1$	Capital $q$ sub one
$Q_3$	Capital $q$ sub three
$E(x)$	Capital $e$ of $x$
$j_{(p)}$	$j$ sub $p$ in parentheses
$\sum_1^N$	summation from one to capital $n$
$\sum_{i=1}^{\infty} x_i$	• summation from $i$ equals one to infinity of $x$ sub $i$
$\prod$	product
$\prod_1^n$	product from one to $n$
$\prod_{i=1}^{\infty} y_i$	product from $i$ equals one to infinity of $y$ sub $i$
$\lim_{x \rightarrow a} y = b$	limit as $x$ approaches $a$ of $y$ equals $b$
$f(x)$	$f$ of $x$
$\lim_{x \rightarrow a-} f(x)$	limit as $x$ approaches $a$ minus of $f$ of $x$
$\Delta y$	capital delta $y$
$\partial y$	partial $y$

$\frac{dx}{dt}$	derivative with respect to $t$ of $x$
$y'$	$y$ prime
$f'(x)$	$f$ prime of $x$
$\frac{d^n y}{dx^n}$	$n^{\text{th}}$ derivative with respect to $x$ of $y$
$y^{(n)}$	$y$ to the $n^{\text{th}}$ prime
$p', \dot{p}$	$p$ prime or first derivative of $p$
$p'', \ddot{p}$	$p$ double prime or second derivative of $p$
$\frac{\partial u}{\partial x}$	partial derivative of $u$ with respect to $x$ or partial $u$ over partial $x$
$\int f(x)dx$	integral of $f$ of $x$ d $x$
$\begin{bmatrix} 2 & 7 \\ 3 & 10 \end{bmatrix}$	two by two matrix first row two seven second row three ten
$a_{ij}$	$a$ sub $i j$

关注公众号英文茶馆，查看更多实用有趣的原创文章



英文茶馆  
·  
公众号