Some mathematical notations as researchers say

Notation	Long phrase	Colloquial phrase
$A \cup B$	the union of A and B	A union B
$A \cap B$	the intersection of A and B	A intersection B
$\int_a^b f(x)dx$	the integral from a to b of the function of x	the integral from a to b
	times the derivative of x	of $f x \operatorname{di} x$
$\frac{d}{dx}$	derivative over the derivative of x	di over di x
$\triangle x$	delta of x (or the change in x)	$\det x$
$ \frac{\frac{d}{dx}}{\triangle x} $ $ \frac{\partial}{\partial x} $ $ \{x\} $	partial derivative over the derivative of x	partial di over di x
$\{x\}$	the set of x	$\int \operatorname{set} x$
$\sum_{k=0}^{\infty} c_a^k x^k$	the sum from k equal to zero to infinity of c	sum from k zero to
_ 1.0	index a to the power of k times c to the power	infinity c index a power k
	of k	times x power k
x	norm of x	norm x
x	$\mod x$	
$\lim_{y \to 0} (1+y)^{\frac{1}{y}} = e$	the limit of y tending towards zero of the	limit y toward zero sum
	sum of one plus y to the power of one over y	one and y powered one
	equals e	over y equals e
A^TA	A transposed multiplied by A	A transpose A

The Greek alphabet pronunciation

The letter	Eng transcription
α	alfa
β	be-tah
γ	gema
δ	delta
ε	ep-sih-lon
ζ	zei-tah
η	ay-tah
ϑ	they-tah
ι	iotah or aiota
κ	kappah
λ	lambda
μ	mu
ν	nu
ξ	ks-eye
o	omicron
π	p-eye
ρ	row
σ	sig-mah
au	tau
v	uhp-sih-lon
φ	
χ	k-eye
ψ	s-eye
ω	omega