

Tables

Symbols

Symbol	Meaning	Page
...	and so on	2
\approx	is approximately equal to	2
\cdot	multiplication, times	3
$-a$	opposite of a	4
$\frac{1}{a}$	reciprocal of a , $a \neq 0$	4
b_1	b sub 1	26
π	pi; irrational number ≈ 3.14	26
$<$	is less than	41
$>$	is greater than	41
\leq	is less than or equal to	41
\geq	is greater than or equal to	41
$ x $	absolute value of x	51
\neq	is not equal to	52
(x, y)	ordered pair	72
$f(x)$	f of x , or the value of f at x	75
m	slope	82
\parallel	is parallel to	84
\perp	is perpendicular to	84
(x, y, z)	ordered triple	178
$\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$	matrix	187
$ A $	determinant of matrix A	203
A^{-1}	inverse of matrix A	210
\sqrt{a}	the nonnegative square root of a	266
i	imaginary unit equal to $\sqrt{-1}$	275
$ z $	absolute value of complex number z	279
$x \rightarrow +\infty$	x approaches positive infinity	339
$\sqrt[n]{a}$	n th root of a	414
f^{-1}	inverse of function f	438

Symbol	Meaning	Page
e	irrational number ≈ 2.718	492
$\log_b y$	log base b of y	499
$\log x$	log base 10 of x	500
$\ln x$	log base e of x	500
$n!$	n factorial; number of permutations of n objects	684
${}_n P_r$	number of permutations of r objects from n distinct objects	685
${}_n C_r$	number of combinations of r objects from n distinct objects	690
$P(A)$	probability of event A	698
$P(\bar{A})$	probability of the complement of event A	709
\cup	union of two sets	715
\cap	intersection of two sets	715
\emptyset	empty set	715
\subseteq	is a subset of	716
$P(B A)$	probability of event B given that event A has occurred	718
\bar{x}	x -bar; the mean of a data set	744
σ	sigma; the standard deviation of a data set	745
Σ	summation	796
θ	theta	852
sin	sine	852
cos	cosine	852
tan	tangent	852
csc	cosecant	852
sec	secant	852
cot	cotangent	852
\sin^{-1}	inverse sine	875
\cos^{-1}	inverse cosine	875
\tan^{-1}	inverse tangent	875