

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
$\pi$	pi; irrational number $\approx 3.14$	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 $\approx 2.718$	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
$\sigma$	sigma; the standard deviation of a data set	745
$\Sigma$	summation	796
$\theta$	theta	852
sin	sine	852
cos	cosine	852
tan	tangent	852
csc	coscant	852
sec	secant	852
cot	cotangent	852
$\sin^{-1}$	inverse sine	875
$\cos^{-1}$	inverse cosine	875
$\tan^{-1}$	inverse tangent	875