Tables

Symbols

Symbol	Meaning	Page
$3 \cdot x$ $3x$ $3(x)$	3 times x	2
$\dfrac{a}{b}$	a divided by b, $b \neq 0$	2
a^4	the fourth power of a, or $a \cdot a \cdot a \cdot a$	3
( )	parentheses—a grouping symbol	9
[ ]	brackets—a grouping symbol	9
$=$	is equal to	21
$<$	is less than	21
$>$	is greater than	21
$\leq$	is less than or equal to	21
$\geq$	is greater than or equal to	21
$\stackrel{?}{=}$	is equal to?	22
(x, y)	ordered pair	43
$\ldots$	continues on	64
$-a$	the opposite of a	66
$|a|$	the absolute value of a	66
$\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$	matrix	94
$\dfrac{1}{a}$	the reciprocal of a, $a \neq 0$	103
$\sqrt{a}$	the nonnegative square root of a, $a \geq 0$	110
$\pm$	plus or minus	110
$\approx$	is approximately equal to	112
$a:b$	the ratio of a to b	162

Symbol	Meaning	Page
$\cong$	is congruent to	174
$\sim$	is similar to	174
A'	the image of point A	213
m	slope	235
b	y-intercept	244
a	constant of variation	253
$f(x)$	the value of the function f at x	262
a^{-n}	$\dfrac{1}{a^n}$, $a \neq 0$	503
$\sqrt[3]{a}$	the cube root of a	510
$c \times 10^n$	scientific notation, $1 \leq c < 10$ and n is an integer	512
$P(A)$	the probability of an event A	844
$n!$	n factorial, or $n \cdot (n-1) \cdot \ldots \cdot 2 \cdot 1$, n is a nonnegative integer	852
$_nP_r$	the number of permutations of n objects taken r at a time, $r \leq n$	852
$_nC_r$	the number of combinations of n objects taken r at a time, $r \leq n$	856
$\overline{x}$	x bar, the mean of numerical data	875
σ^2	variance, the square of standard deviation	879
σ	standard deviation, the nonnegative square root of variance	879