

FUNCTIONS, LIMITS, AND CONTINUITY

1.1 FUNCTIONS AND THEIR GRAPHS

Real Number can be expressed as a decimal.

A rational number is a repeating or terminating decimal.

Inequalities $a < b$ (a is less than b) if $b - a$ is positive;

$a > b$ (a is greater than b) if $a - b$ is positive.

$a \leq b$ (a is less than or equal to b) if $a < b$ or $a = b$; $a \geq b$ if $a > b$ or $a = b$.

Intervals $(a, b) = \{x \mid a < x < b\}$ $[a, b] = \{x \mid a \leq x \leq b\}$ $(a, b] = \{x \mid a < x \leq b\}$
 $[a, b) = \{x \mid a \leq x < b\}$ $(a, +\infty) = \{x \mid x > a\}$ $(-\infty, b) = \{x \mid x < b\}$
 $[a, +\infty) = \{x \mid x \geq a\}$ $(-\infty, b] = \{x \mid x \leq b\}$ $(-\infty, +\infty) = \mathbb{R}$

Absolute Value $|a| = \begin{cases} a & \text{if } a \geq 0 \\ -a & \text{if } a < 0 \end{cases}$ $|a - b| = \begin{cases} a - b & \text{if } a \geq b \\ b - a & \text{if } a < b \end{cases}$

Sign, Step Function $\text{sgn } x = \begin{cases} -1 & \text{if } x < 0 \\ 0 & \text{if } x = 0 \\ 1 & \text{if } x > 0 \end{cases}$ $\Pi(x) = \begin{cases} 0 & \text{if } x < 0 \\ 1 & \text{if } x \geq 0 \end{cases}$

Triangle Inequality $|a + b| \leq |a| + |b|$

Graphing *Sketch* mean by hand; *plot* mean using a graphics calculator. Our plots label the axes.

1.1.1 Definition A function is a set of ordered pairs of numbers (x, y) in which no two distinct ordered pairs have the same first number. The set of all admissible values of x is called the domain of the function and the set of resulting values of y is called the range of the function. The numbers x and y are variables. A function like $|x|$ is said to be defined in pieces.

1.1.2 Definition If f is a function, then the graph of f is the set of all points (x, y) in $\mathbb{R}^2$ for which (x, y) is an ordered pair in f , that is, the graph of the equation $y = f(x)$.

A function determines a correspondence between the domain and the range. For each number x in the domain there corresponds one and only one number y in the range. When addition, subtraction, and multiplication are the only operations required to calculate y , as in a polynomial function, the domain is the set of all real numbers. If division is required to calculate y , then the domain does not contain any replacement for x that results in division by zero. Thus, for a rational function, which is the quotient of two polynomials, the domain is the set of all real numbers, except for those replacements of x that result in a value of zero for the denominator of the fraction. Because the range of a function is a set of real numbers, and the square root of a negative number is not real, if the formula that defines a function contains the square root sign, then x must satisfy the inequality obtained by making the expression under the radical sign greater than or equal to zero.

Greatest Integer $[x] = n$ if $n \leq x < n + 1$ where n is an integer. Note: $-[-n] = n + 1$ if $n < x \leq n + 1$.

The Calculus 7 Leithold Solution Manual

Esther M. Leithold



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