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## ONE

## 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.

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

Intervals  $(a,b) = \{x \mid a < x < b\}$  $[a,b) = \{x \mid a \le x < b\}$ 

 $[a,b] = \{x \mid z \le z \le b\}$  $(a,b) = \{x \mid a < x \le t\}$  $(a, +\infty) = \{x \mid x > a\}$  $(-\infty,b) = \{a \mid a < b\}$ 

 $\infty, +\infty) = \mathbb{R}$ 

 $[a, -\infty) = \{x \mid x \ge a\}$ 

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

Sign, Step Function sgn  $x = \begin{cases} -1 & \text{if } x < 0 \\ 0 & \text{if } x = 0 \end{cases}$ .  $V(x) = \begin{cases} 0 & \text{if } x < 0 \\ 1 & \text{if } x \ge 0 \end{cases}$ 

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 admixible values of v k 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 z 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 a must satisfy the inequality obtained by making the expression under the radical sign greater than or equal to zero.

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

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