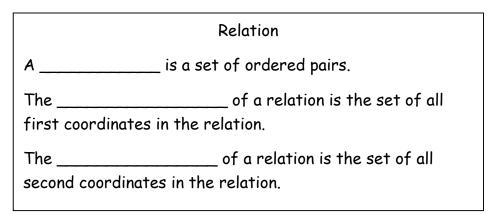
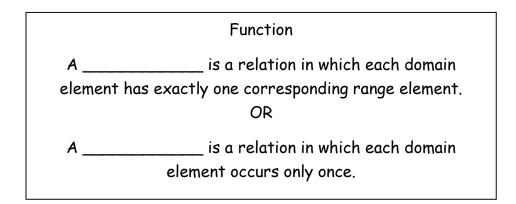
4.5 Introduction to Functions and Function Notation



Find the domain and range for each of the following relations.

a. r ={(5, 6), (-3, 2), (6, 1), (-4, -1)}

b. f ={(3, 6), (7, 3), (7, 4), (-1, 0)}



Vertical line test-

Suppose that y= 3x - 2 is a given linear equation. Since the equation is solved for y, it represents a linear function and we can replace y with the notation f(x) as ______

f(x) is read "f of x" and it stands for the y-value for some corresponding x-value. For the function g(x) = 4x + 3, find g(2).

For the function $f(x) = x^2 - 2x + 1$, find a) f(-2) b) f(0) c) f(4)

For the function $h(x) = 2x^3 - 5x$, find

a) h(3) b) h(-4)

Given the function $f(x) = x^2 - 10$ with restricted domain D = {-1, 0, 2, 3}, write the function as a set of ordered pairs.

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