4.7: Function Notation

- *Goals: Identify function notation
 - Find the value of a function for a given value of x
 - Find the value of *x* for a given function value

Function Notation:

f(x) = y; x is still the input. Now instead of calling y the output, it is being called f(x)

So an ordered pair that use to be written: (,) could now be written: (,)

While f is typically the most common function name, other common functions are:

f(x) **DOES NOT** mean to _____.

- f(7) would just mean to _____ 7 in for x into the given function.

Finding and output given an input.

Ex: What is the value of the function f(x) = 3x - 15 when x = -3?

- What is this problem really asking you to do? Think in terms of input and output.

Ex: Evaluate h(x) = -7x when x = 7

Ex: What is the value of the function f(x) = 2x + 12 when x = -8?

Finding an input given an output.

Ex: For the function f(x) = 2x - 10, find the value of x so that f(x) = 6. - What is this problem asking you to do?

Ex: For the function f(x) = -2x + 4, find the value of x so that f(x) = 16.