Algebra 1/2

HW: Function Notation

## Function notation is a useful way in mathematics to identify different equations. We use it as a formal way to show whether to EVALUATE (find the value) of a function, or SOLVE (for a variable).

Use the following functions to answer the problems below:

f(x) = 2x - 3  $g(x) = \frac{-12}{x}$   $m(x) = x^2$  d(x) = 2(x - 3)

Here we will practice EVALUATING.

**Example 1:** Find f(-3).

**Example 2:** Find d(6).

You Try:		
1. Find $f(5)$ .	2. Find $g(-2)$ .	3. Find $d(-5)$ .

4. Find *m*(5).

5. Find m(-5).

6. Find *g*(6).

7. Find f(-4).

8. Find *d*(11).

9. Find m(-11).

Now, we will practice SOLVING using the following functions to answer the problems below:

$f(x) = 2x - 3$ $g(x) = \frac{12}{x}$ $d(x) = 2(x - 3)$	f(x) = 2x - 3	$g(x) = \frac{-12}{x}$	d(x) = 2(x - 3)
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<b>Example 1:</b> Solve $f(x) = -11$	<b>Example 2:</b> Solve $g(x) = 6$
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## You Try:

1. Solve d(x) = -18 2. Solve f(x) = 15.

3. Solve g(x) = 3. 4. Solve d(x) = -22.

## **Optional Challenge:**

5. If  $m(x) = x^2$ , solve m(x) = 1446. If  $h(x) = x^2 - 5x + 3$ , find h(-7).

7. If 
$$p(x) = \frac{2x-5}{3}$$
, find  $p(18)$ .  
7. If  $p(x) = \frac{2x-5}{3}$ , solve  $p(x) = -5$ .