

2.2 Re-Teach Worksheet

Intermediate Algebra

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Learning Target: I understand the meaning of function notation and can evaluate functions for a given input.

1. Given:

$$f(x) = 2x - 8$$

$$g(x) = 2x^2 + 3x - 1$$

$$h(x) = x + 4$$

Find:

a. $h(-5)$ $x = -5$

$$h(-5) = -5 + 4$$

$\boxed{E-1}$

d. $h(0) + f(5)$

$$0 + 4 = 4$$

$$4 + 2 \boxed{E6}$$

b. $f(-1)$

$$f(-1) = 2(-1) - 8$$

$\boxed{= -10}$

e. Find x if $h(x) = 14$

$$14 = x + 4$$

$$\boxed{10 = x}$$

c. $g(3) = 2(3)^2 + 3(3) - 1$

$$2(9) + 9 - 1$$

$$18 + 9 - 1$$

$$= \boxed{26}$$

f. Find x if $f(x) = -20$

$$-20 = 2x - 8$$

$$-12 = 2x$$

$\boxed{x = -6}$

g. Compare the two expressions below as greater than, less than, or equal to. Show your work!

Options: $>$, $<$, $=$

$$\frac{13}{g(2)} > \text{the value of } x \text{ when } h(x) = 5$$

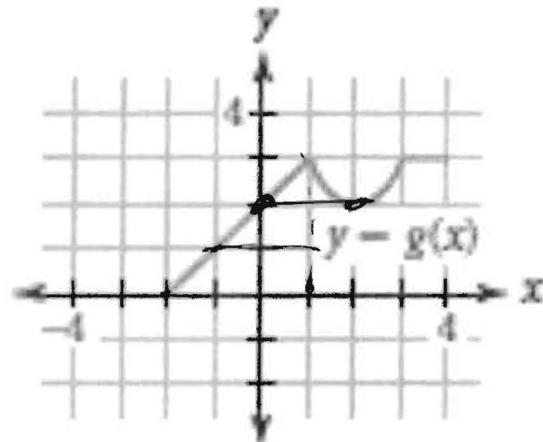
$$g(2) = 2(2)^2 + 3(2) - 1$$

$$8 + 6 - 1 = 13$$

$$\frac{1}{5 = x + 4}$$

$$1 - x$$

2. Use the graph to find the following:



a. $g(1)$

$$\boxed{Y=3}$$

b. $g(-2)$

$$\boxed{X=0}$$

c. Find x when $g(x) = 1$

$$\boxed{Y=1}$$

$$\boxed{X=-1}$$

d. Find all values of x that make $g(x) = 2$

$$y = 2$$

$$\boxed{X=0 + X=2}$$

3.

x	$f(x)$
-3	4
-2	-1
7	3
0	$\boxed{2}$

a. Find $f(-3)$

$$\boxed{X=-3}$$

$$\boxed{Y=4}$$

b. What is x when $f(x) = 2$

$$\boxed{X=0}$$

$$\boxed{Y=2}$$