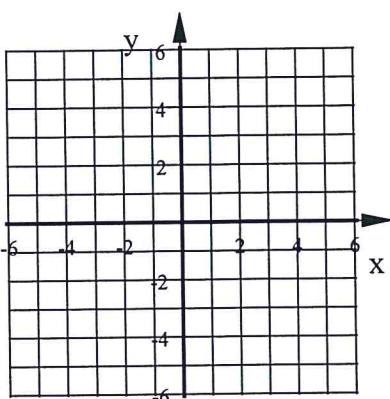


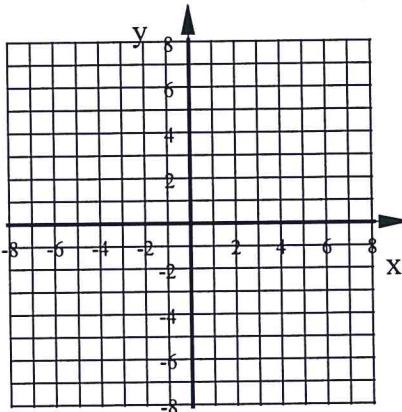
Algebra 1 6th Bellwork Wednesday, January 6, 2016

Graph each using at least 5 points.

1. $y = -2|x - 3| + 5$



2. $f(x) = 3(x + 2)^2 - 6$



3. Use these functions: $f(x) = 2x + 3$

a. Find $g(-2)$.

$g(y) = y^2 - 5y$

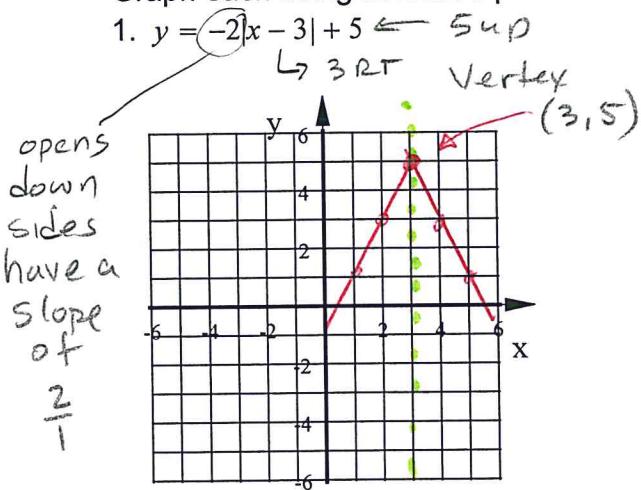
b. Find x if $f(x) = 21$

c. Find $2f(6) + 3g(1)$

Algebra 1 6th Bellwork

Wednesday, January 6, 2016

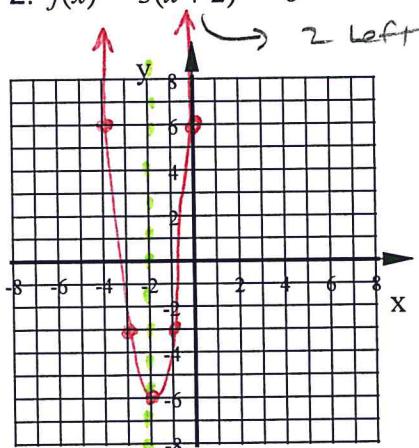
Graph each using at least 5 points.



Wednesday, January 6, 2016

Answers

2. $f(x) = 3(x + 2)^2 - 6$


 Vertex $(-2, -6)$

X	Y
-1	-3
0	6

3. Use these functions: $f(x) = 2x + 3$

a. Find $g(-2)$.

$g(y) = y^2 - 5y$

b. Find x if $f(x) = 21$

$$g(-2) = (-2)^2 - 5(-2) = 14$$

$$21 = 2x + 3$$

$$X = 9$$

c. Find $2f(6) + 3g(1) = 30 + -12 = 18$

$$\frac{18}{2} = \frac{2x}{2}$$

$$f(6) = 2(6) + 3 = 12 + 3 = 15$$

$$g(1) = (1)^2 - 5(1) = 1 - 5 = -4$$

$$2f(6) = 2(15) = 30$$

$$3g(1) = 3(-4) = -12$$