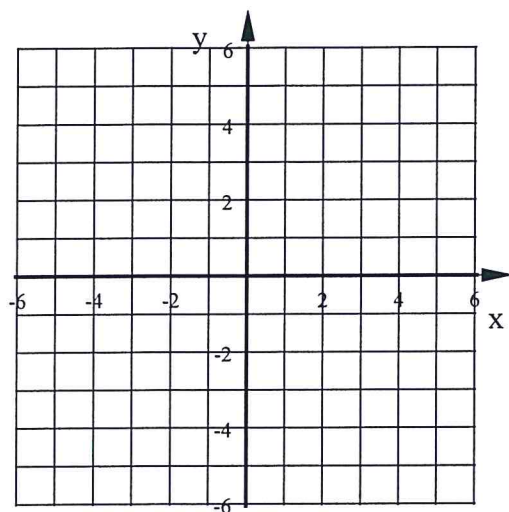


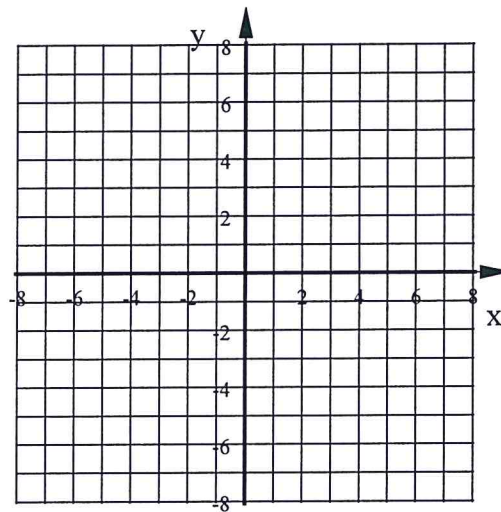
Algebra 1 Bellwork Monday, December 14, 2015

Graph each using at least 5 points.

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



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

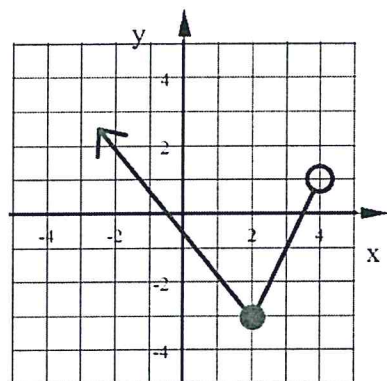


3. Use these functions: $f(x) = 2x^2 - 5$

$g(y) = 5 - 4y$

Find $4f(2) - g(-3)$

4. Find the Domain and Range of this relation shown below.



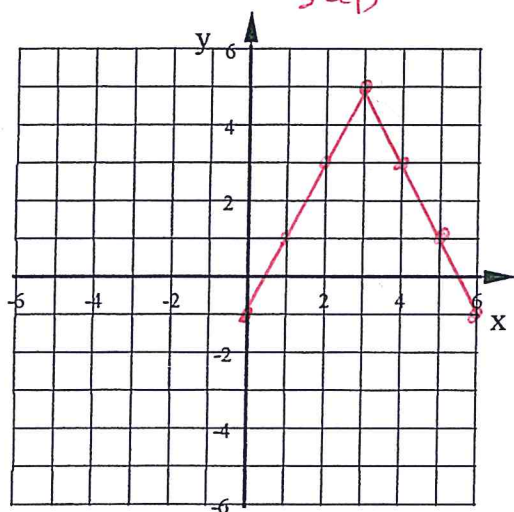
Domain:

Range:

Graph each using at least 5 points.

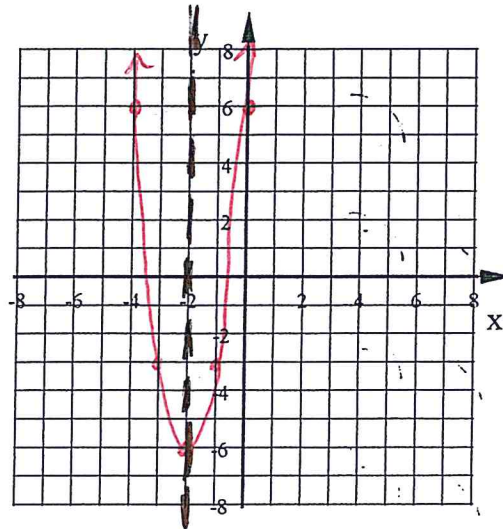
1. $y = -2|x - 3| + 5$

Vertex:
3 RT
5 up



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

Vertex:
2 left
6 down



X	Y
-1	-3
0	6

3. Use these functions: $f(x) = 2x^2 - 5$

$g(y) = 5 - 4y$

Find $4f(2) - g(-3)$

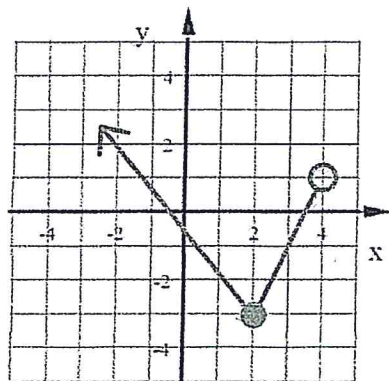
$\downarrow \quad \downarrow$
 $12 - 17 = -5$

$f(2) = 2(2)^2 - 5$
 $= 2(4) - 5$
 $= 8 - 5 = 3$

$4 \cdot f(2) = 4 \cdot 3 = 12$

$g(-3)$
 $= 5 - 4(-3)$
 $= 5 + 12$
 $= 17$

4. Find the Domain and Range of this relation shown below.



Domain: $x < 4$

Range: $y \geq -3$