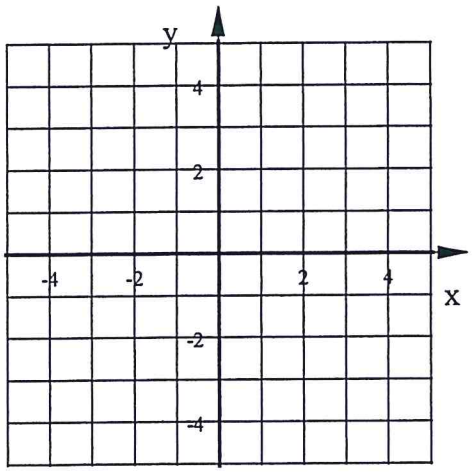
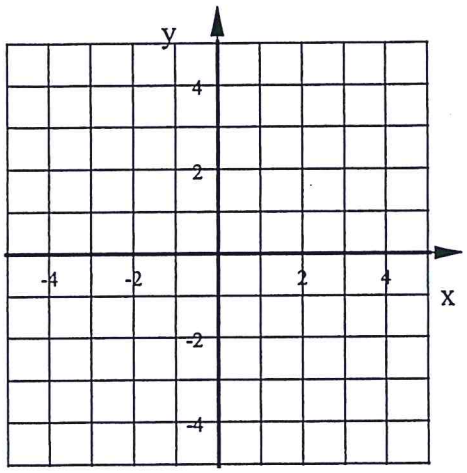
Algebra 1 6th hour Bellwork Tuesday, December 15, 2015

Graph each function. Use at least three points for a Linear Function and at least five points for a Quadratic or Absolute Value Function.

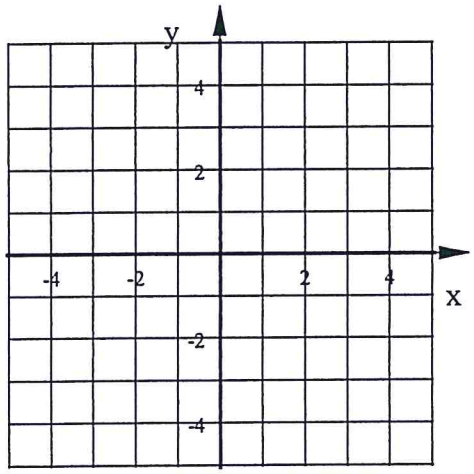
1. $y = 4x + 3$



2. $y = -(x-2)^2 + 3$



3. $y = \frac{1}{2}|x+1| - 3$



4. Use this function: $m(p) = 2x^2 + 7$

Find the Range for this Domain: $\{-3, 0, 1, 3\}$

5. Is each of the below a Function?

a) $(-5,4), (3,7), (-1,4), (8,4), (5,4)$

b)

X	Y
−8	4
3	−1
1	2
7	−13
3	6

6. Use this function: $k(b) = -\frac{2}{3}b - 13$

Find b if $k(b) = -27$

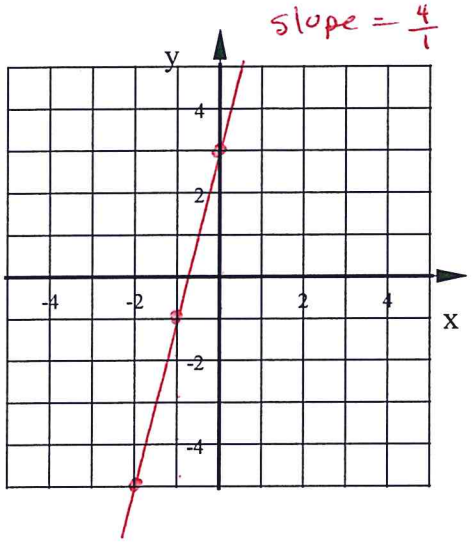
Algebra 1 6th hour Bellwork Tuesday, December 15, 2015 ANSWERS

Graph each function. Use at least three points for a Linear Function and at least five points for a Quadratic or Absolute Value Function.

1. $y = 4x + 3$

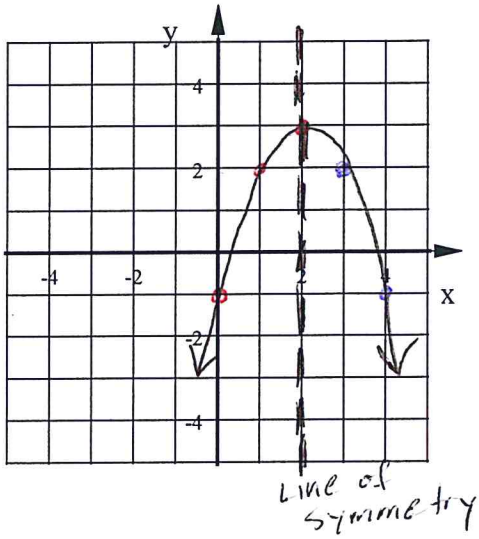
y-int = 3

slope = $\frac{4}{1}$



2. $y = -(x-2)^2 + 3$

2 RIGHT, 3 up } vertex (2,3)

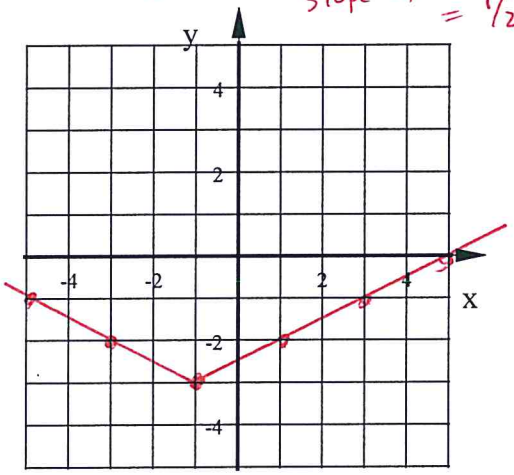


X	Y
-2	-13
-1	-6
0	-1
1	2
2	3
3	2
4	-1

3. $y = \frac{1}{2}|x+1| - 3$

1 left 3 down

slope of sides = 1/2



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Find the Range for this Domain: $\{-3, 0, 1, 3\}$

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a) $(-5,4), (3,7), (-1,4), (8,4), (5,4)$ Yes

b)

X	Y
−8	4
3	−1
1	2
7	−13
3	6

No

6. Use this function: $k(b) = -\frac{2}{3}b - 13$

Find b if $k(b) = -27$

$-27 = -\frac{2}{3}b - 13$

$+13 \qquad +13$

$(-3/2)(14) = (-\frac{2}{3}b)(-3/2)$

$-21 = b$