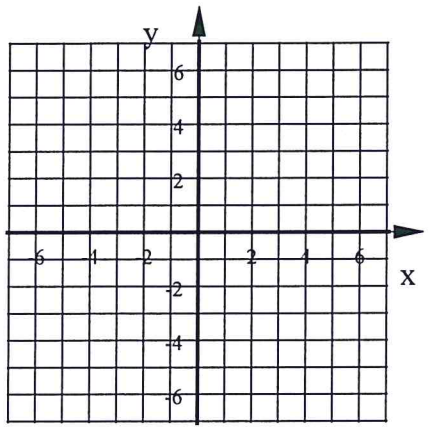
Algebra 1 6th hour Bellwork Friday, December 4, 2015

For each problem you will be graphing an equation by plotting points created using the given table. For each problem take the x-values given in the table and substitute them into the equation to find the corresponding y-values. Plot each pair of x and y-values from the table. Then connect the points. Connect them with a line if it looks like they form a line. Connect them with a curve if it looks like they form a curve.

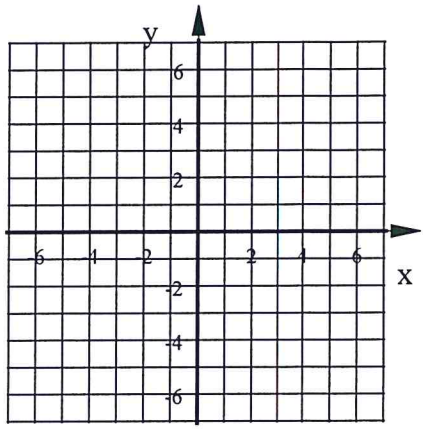
1. $y = -4|x - 3| + 6$

X	Y
1	
2	
3	
4	
5	

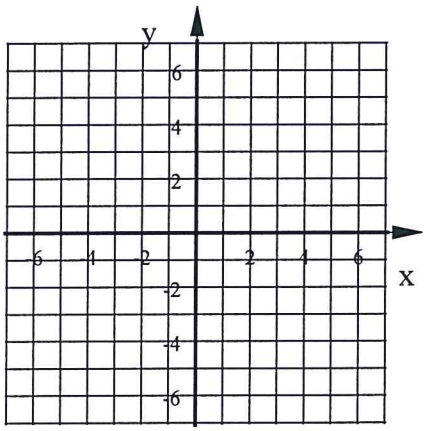


2. $y = 3x^2 + 12x + 5$

X	Y
−4	
−3	
−2	
−1	
0	



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

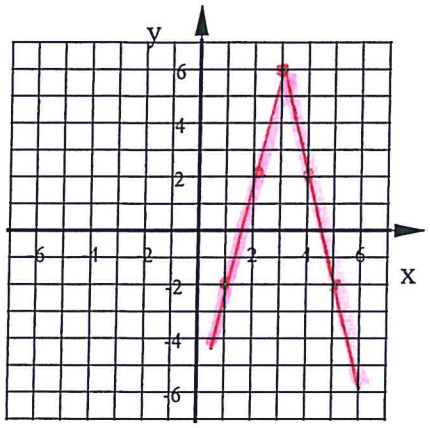


Algebra 1 6th hour Bellwork Friday, December 4, 2015 Answers

For each problem you will be graphing an equation by plotting points created using the given table. For each problem take the x-values given in the table and substitute them into the equation to find the corresponding y-values. Plot each pair of x and y-values from the table. Then connect the points. Connect them with a line if it looks like they form a line. Connect them with a curve if it looks like they form a curve.

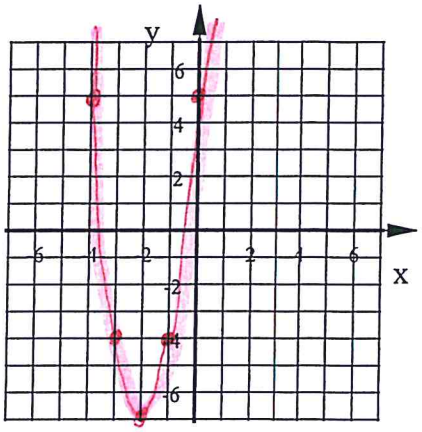
1. $y = -4|x - 3| + 6$

X	Y
1	-2
2	2
3	6
4	2
5	-2

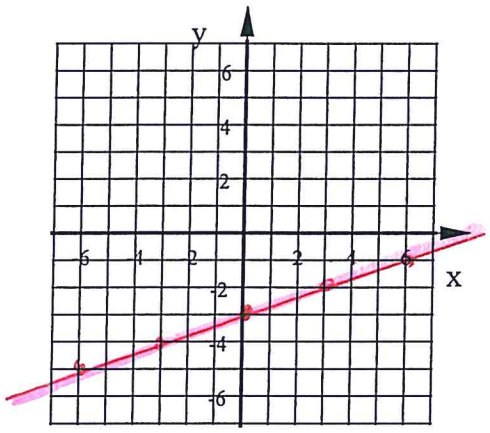


2. $y = 3x^2 + 12x + 5$

X	Y
-4	5
-3	-4
-2	-7
-1	-4
0	5



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



Y-INTERCEPT = -3

Slope = $\frac{1}{3}$ = $\frac{\text{Rise } 1}{\text{Run } 3}$ = up 1 & 3 right or down 1 & 3 left