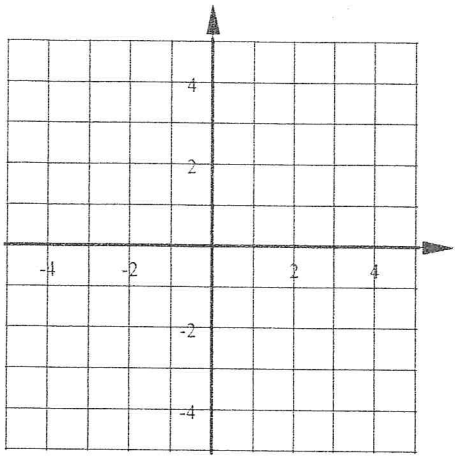
Algebra 1 Bellwork Monday, December 1, 2014

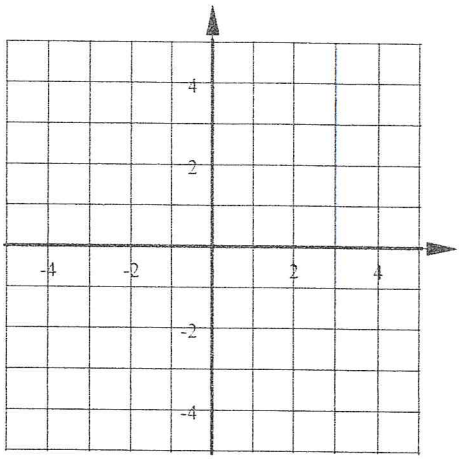
1. The graph of $y = x^2 - 4x + 2$ is a Parabola. Fill in the table below, plot the points and connect them to form the Parabola.

x	y
0	
1	
2	
3	
4	



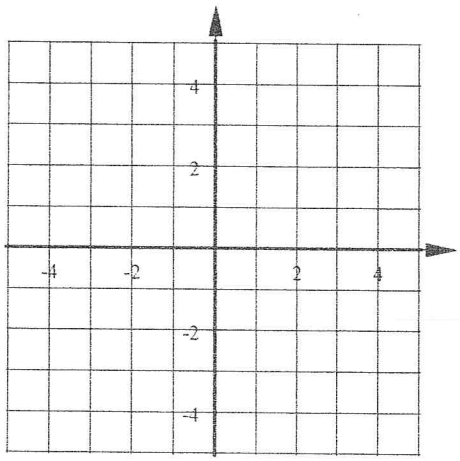
2. Use the table below to graph this parabola. Extend the table in order to see the whole parabola. $y = x^2 + 6x + 5$

x	y
-2	
-1	
0	
1	
2	



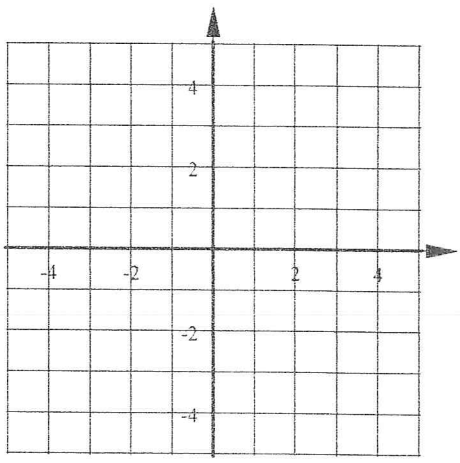
3. The graph of $y = |x + 1| - 3$ is called a V-shape. Fill in the table below, plot the points and connect them to form the V-shape.

x	y
-3	
-2	
-1	
0	
1	



4. Use the table below to graph this V-shape. Extend the table in order to see the whole V-shape. $y = -2|x - 1| + 4$

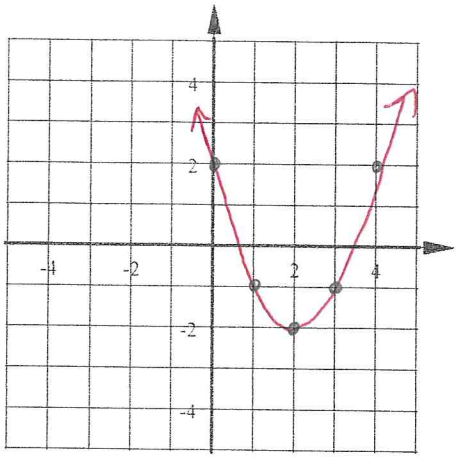
x	y
-3	
-2	
-1	
0	
1	



Algebra 1 Bellwork Monday, December 1, 2014 ANSWERS

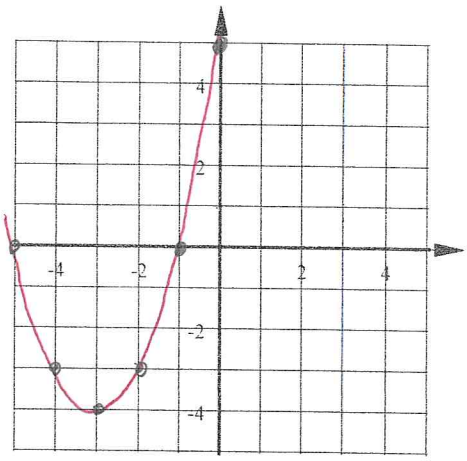
1. The graph of $y = x^2 - 4x + 2$ is a Parabola. Fill in the table below, plot the points and connect them to form the Parabola.

x	y
0	2
1	-1
2	-2
3	-1
4	2



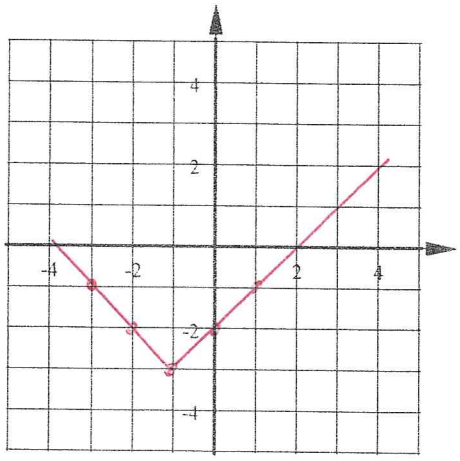
2. Use the table below to graph this parabola. Extend the table in order to see the whole parabola. $y = x^2 + 6x + 5$

x	y
-2	-3
-1	0
0	5
1	12
2	21
-3	-4
-4	-3
-5	0



3. The graph of $y = |x + 1| - 3$ is called a V-shape. Fill in the table below, plot the points and connect them to form the V-shape.

x	y
-3	-1
-2	-2
-1	-3
0	-2
1	-1



4. Use the table below to graph this V-shape. Extend the table in order to see the whole V-shape. $y = -2|x - 1| + 4$

x	y
-3	-4
-2	-2
-1	0
0	2
1	4
2	2
3	0
4	-2