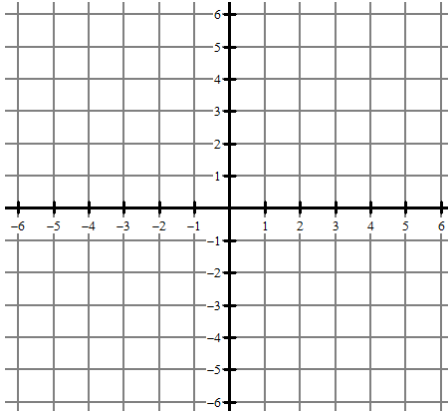


**Corrective Assignment**

Find the axis of symmetry and the vertex. Fill in the table and plot the points. If needed, add additional points to complete the sketch of the quadratic.

1.  $y = -x^2 - 2x + 2$

Axis of Symmetry

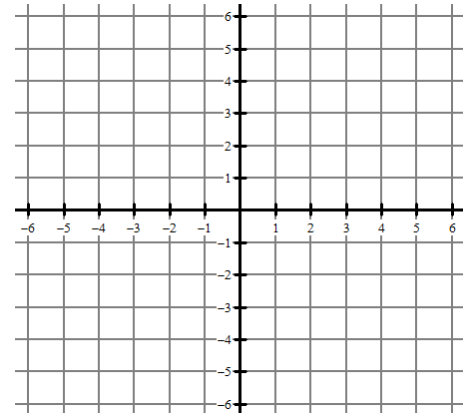


Vertex

x	y
-4	
-2	
0	
2	

2.  $y = x^2 - 3x$

Axis of Symmetry

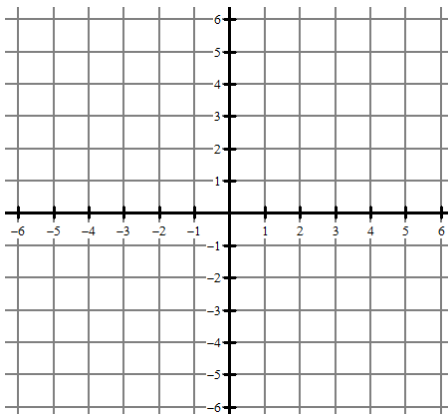


Vertex

x	y
-1	
0	
1	
2	
3	

3.  $f(x) = 2x^2 + 8x + 5$

Axis of Symmetry

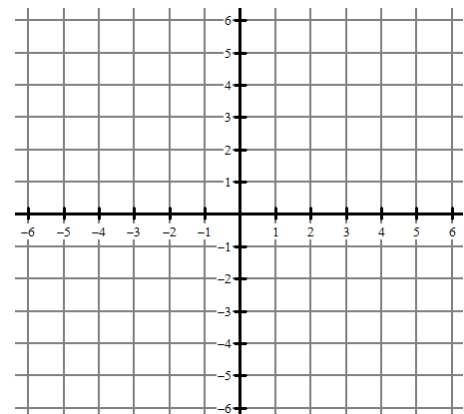


Vertex

x	f(x)
-4	
-3	
-2	
-1	
0	

4.  $f(x) = -\frac{1}{2}x^2 + 2x + 1$

Axis of Symmetry

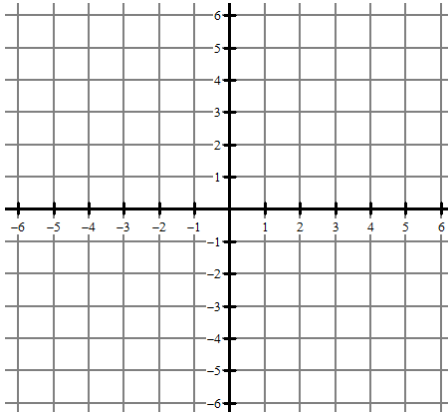


Vertex

x	f(x)
-1	
0	
1	
2	
3	

5.  $y = x^2 + 3x + 1$

Axis of Symmetry

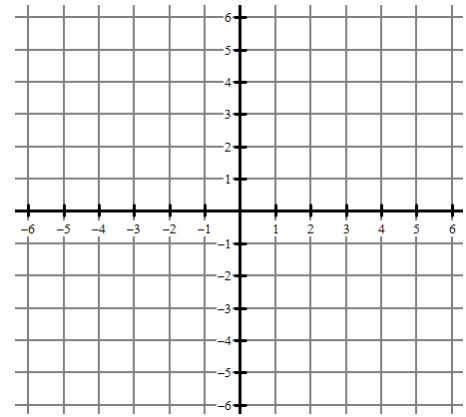


Vertex

x	y
-3	
-2	
-1	
0	
1	

6.  $f(x) = -2x^2 - 12x - 14$

Axis of Symmetry



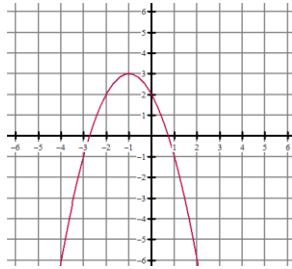
Vertex

x	f(x)
-5	
-4	
-3	
-2	
-1	

## ANSWERS TO 12.1 CORRECTIVE ASSIGNMENT

1.  
Axis of Symmetry  
 $x = -1$

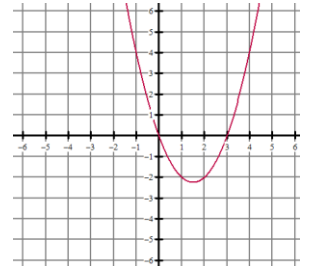
x	y
-4	-6
-2	2
0	2
2	-6



Vertex  
 $(-1, 3)$

2.  
Axis of Symmetry  
 $x = 1.5$

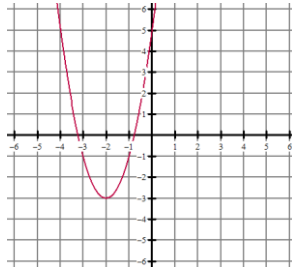
x	y
-1	4
0	0
1	-2
2	-2
3	0



Vertex  
 $(1.5, -2.25)$

3.  
Axis of Symmetry  
 $x = -2$

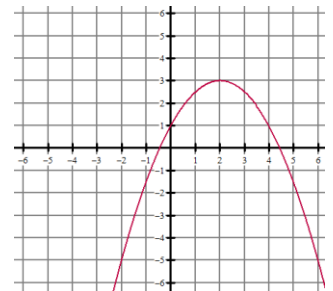
x	y
-4	5
-3	-1
-2	-3
-1	-1
0	5



Vertex  
 $(-2, -3)$

4.  
Axis of Symmetry  
 $x = 2$

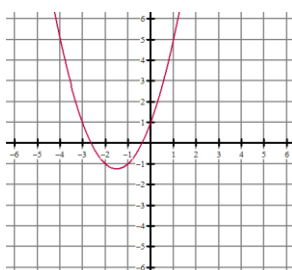
x	f(x)
-1	-1.5
0	1
1	2.5
2	3
3	2.5



Vertex  
 $(2, 3)$

5.  
Axis of Symmetry  
 $x = -1.5$

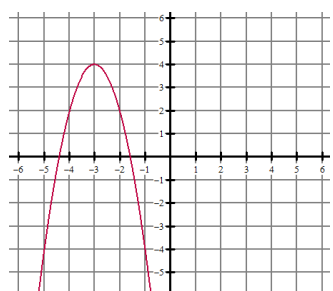
x	y
-3	1
-2	-1
-1	-1
0	1
1	5



Vertex  
 $(-1.5, -1.25)$

6.  
Axis of Symmetry  
 $x = -3$

x	f(x)
-5	-4
-4	2
-3	4
-2	2
-1	4



Vertex  
 $(-3, 4)$