

Algebra 1: 11.1 Homework
Graphing Quadratics

Name _____ Period _____

Sketch the graph of each quadratic function. Identify the vertex and axis of symmetry. Tell whether the graph is a maximum or minimum.

1) $y = \frac{1}{2}x^2$

Vertex _____

Minimum or Maximum? _____

Axis of Symmetry _____

x	y = _____
-2	
-1	
0	
1	
2	

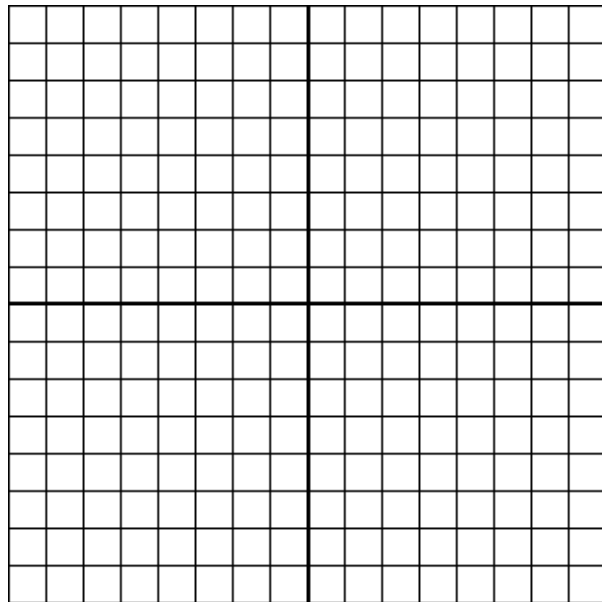
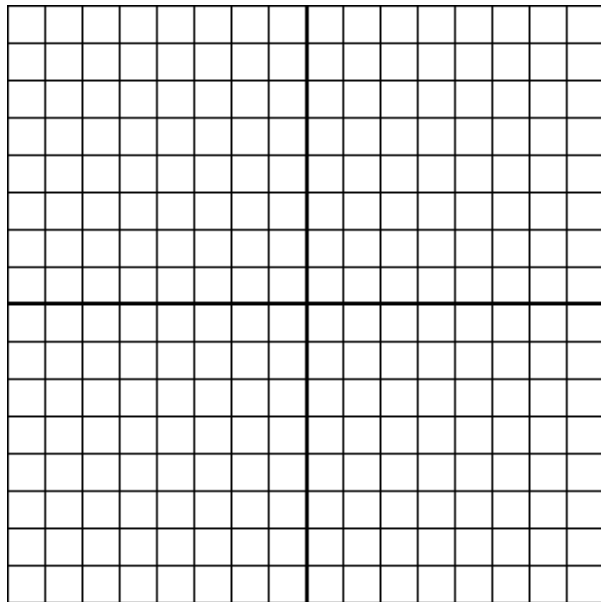
2) $y = -2x^2$

Vertex _____

Minimum or Maximum? _____

Axis of Symmetry _____

x	y = _____
-2	
-1	
0	
1	
2	



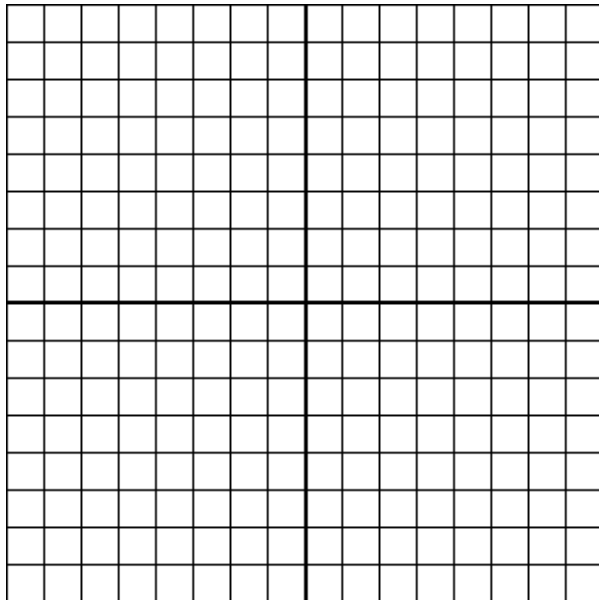
3) $y = x^2 + 3$

Vertex _____

Minimum or Maximum? _____

Axis of Symmetry _____

x	y = _____
-2	
-1	
0	
1	
2	



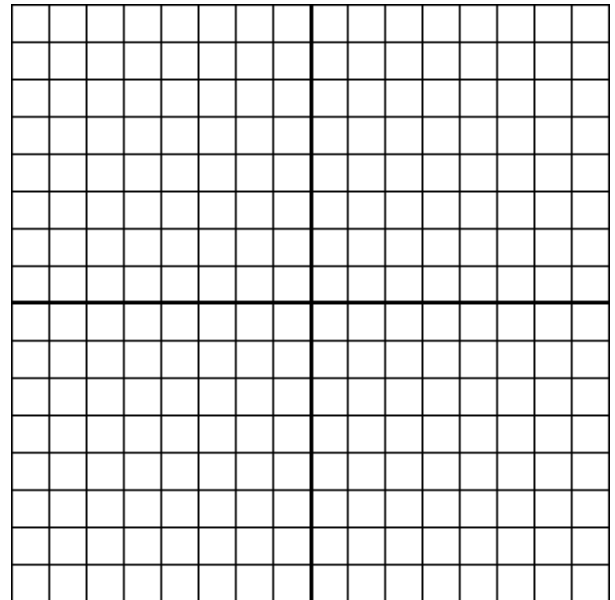
4) $y = x^2 - 3$

Vertex _____

Minimum or Maximum? _____

Axis of Symmetry _____

x	y = _____
-2	
-1	
0	
1	
2	



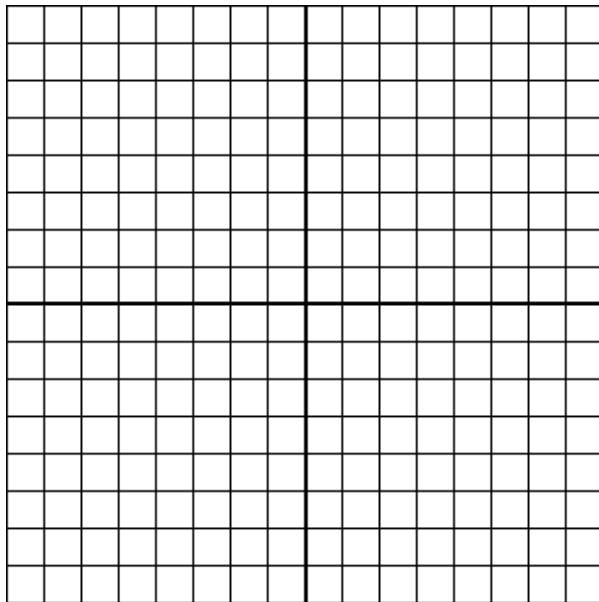
5) $y = x^2 - 4x + 3$

Vertex _____

Minimum or Maximum? _____

Axis of Symmetry _____

x	y = _____
-2	
-1	
0	
1	
2	



6) $y = -x^2 + 4x - 3$

Vertex _____

Minimum or Maximum? _____

Axis of Symmetry _____

x	y = _____
-2	
-1	
0	
1	
2	

