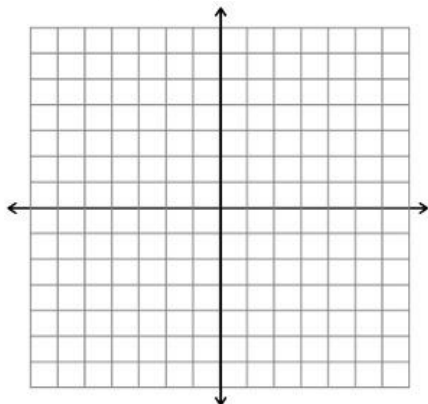Name: _____ Hour: _____

Graph each quadratic function. Identify the vertex and axis of symmetry.

1. $y = -2x^2$

Vertex:

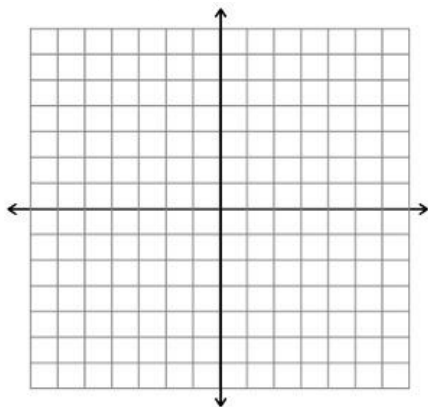Axis of Symmetry:
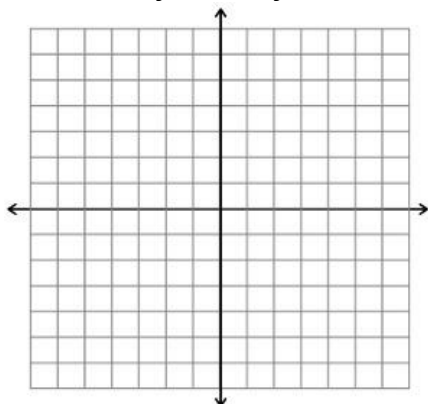
2. $y = 3x^2 - 5$

Vertex:
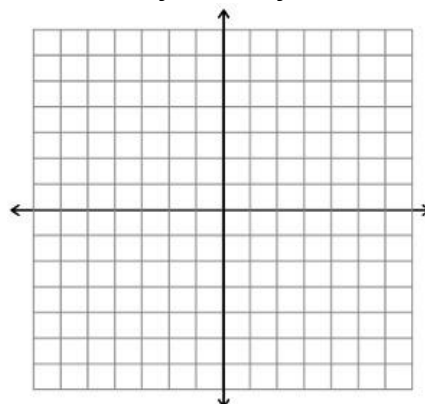
Axis of Symmetry:

3. $y = -\frac{1}{4}(x + 3)^2$

Vertex:

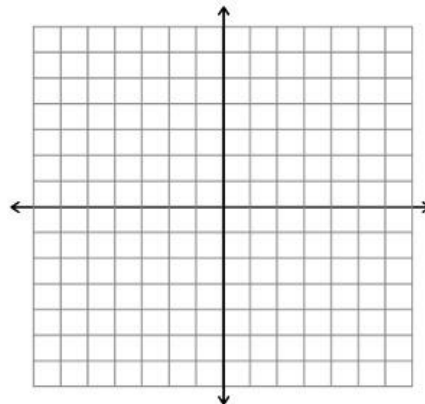Axis of Symmetry:

4. $y = \frac{1}{3}(x + 4)^2 - 2$

Vertex:

Axis of Symmetry:

5. $y = -(x - 2)^2 + 1$

Vertex:

Axis of Symmetry:

6. $y = \frac{1}{2}(x - 1)^2 - 4$

Vertex:

Axis of Symmetry: