Graphing Quadratic Functions B

Name:_____ Period:_____

Directions: Find the vertex and axis of symmetry and describe the transformation of each quadratic function. Then graph the function.

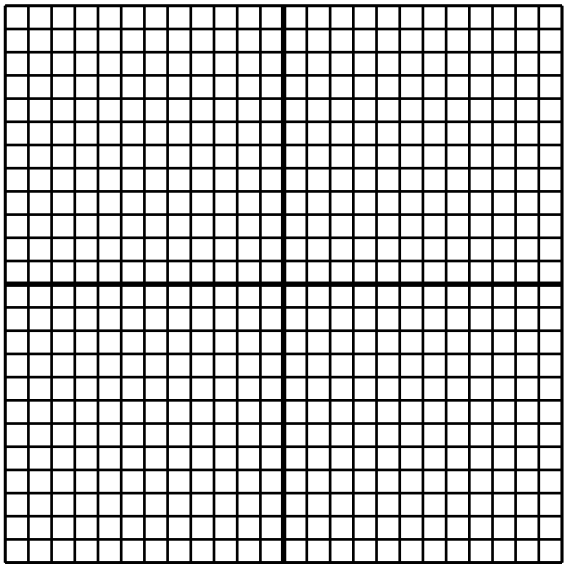
1. $y = 2(x-5)^2 - 6$

Vertex:_____

Axis of Symmetry:_____

Describe the transformation:_____

_____



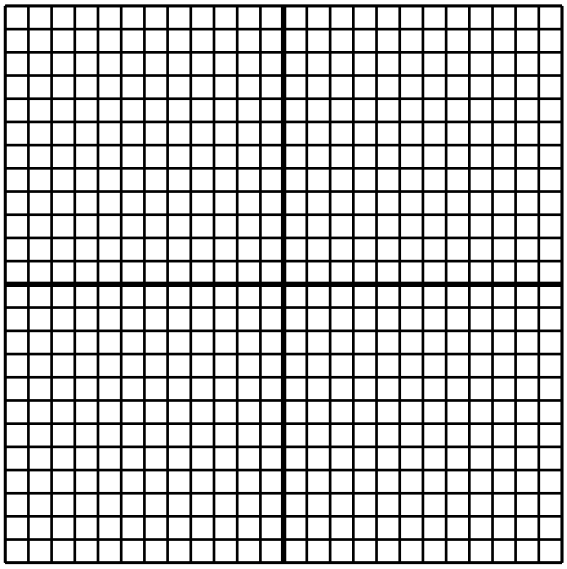
2. $y = \frac{1}{2}(x+4)^2 + 3$

Vertex:_____

Axis of Symmetry:_____

Describe the transformation:_____

_____



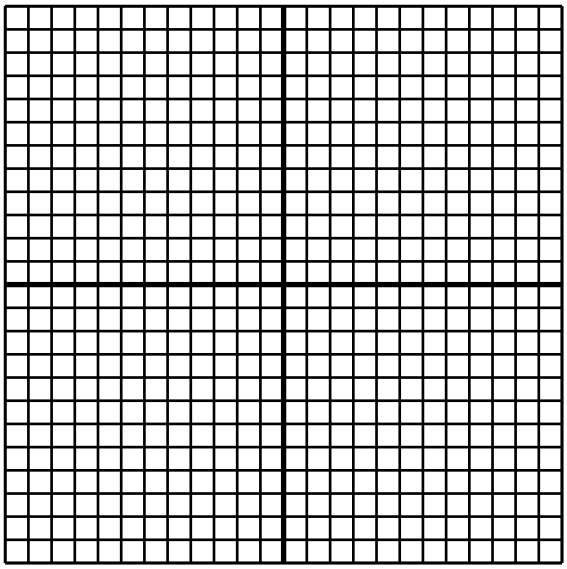
3. $y = -3(x-6)^2 + 9$

Vertex:_____

Axis of Symmetry:_____

Describe the transformation:_____

_____



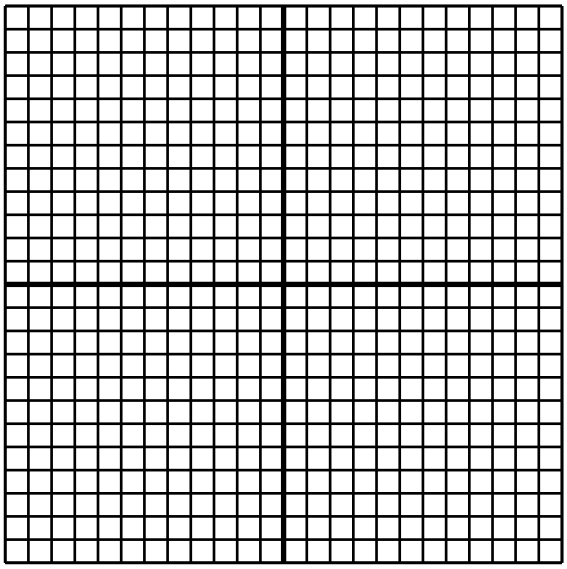
4. $y = -\frac{1}{4}(x-5)^2 - 2$

Vertex:_____

Axis of Symmetry:_____

Describe the transformation:_____

_____



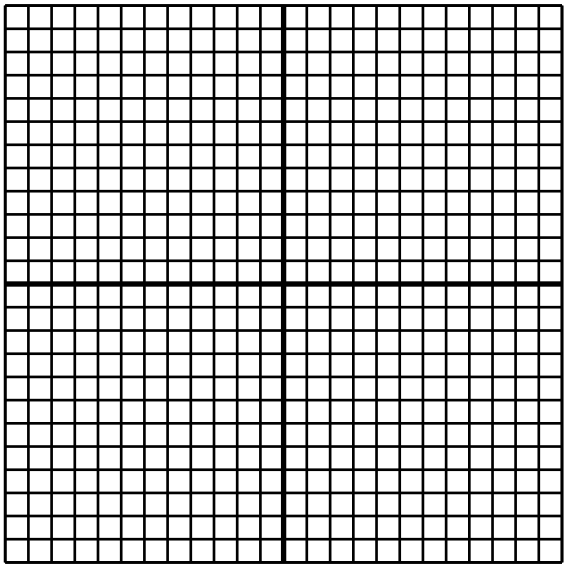
5. $y = 3(x+1)^2 - 10$

Vertex:_____

Axis of Symmetry:_____

Describe the transformation:_____

_____



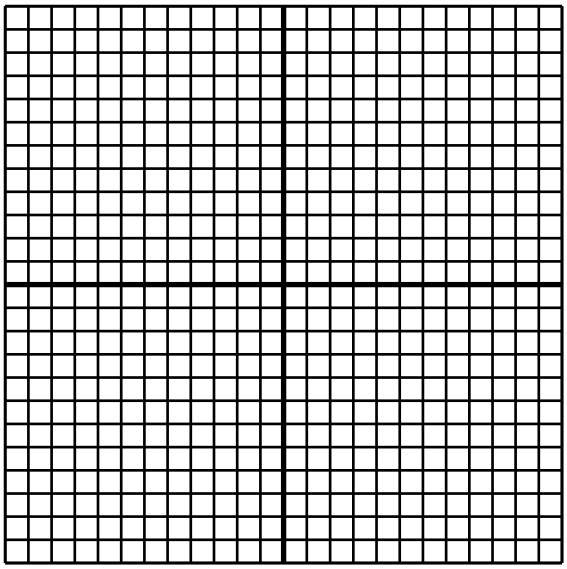
6. $y = -\frac{1}{3}(x+2)^2 + 5$

Vertex:_____

Axis of Symmetry:_____

Describe the transformation:_____

_____



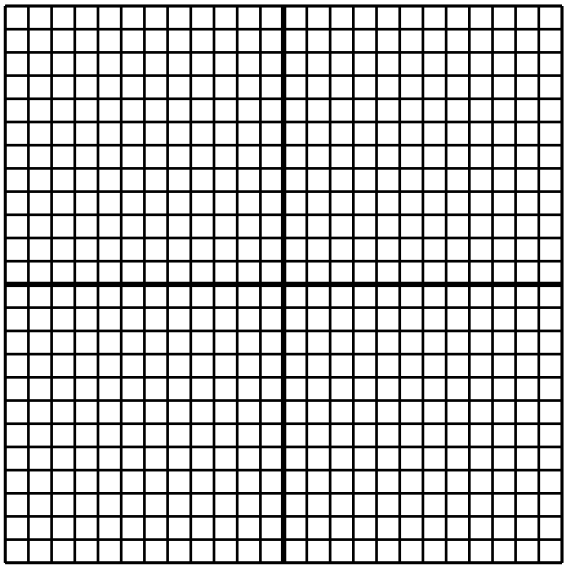
7. $y = 2(x-7)^2 - 4$

Vertex:_____

Axis of Symmetry:_____

Describe the transformation:_____

_____



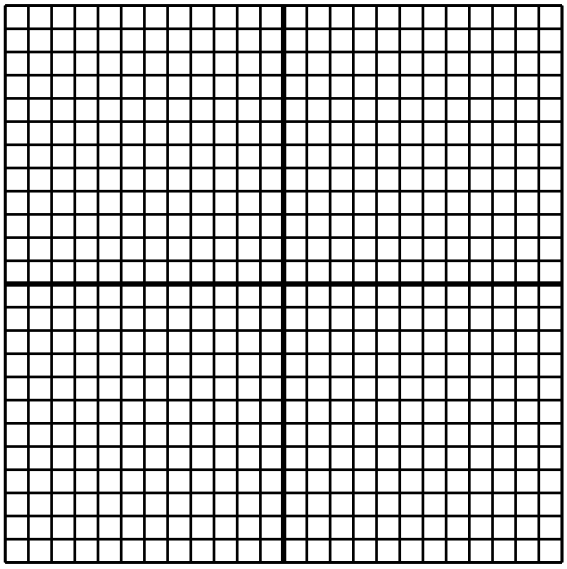
8. $y = -2(x+2)^2 + 4$

Vertex:_____

Axis of Symmetry:_____

Describe the transformation:_____

_____



9. $y = \frac{3}{4}x^2 + 3$

Vertex:_____

Axis of Symmetry:_____

Describe the transformation:_____

_____