

Graphing Quadratic Functions to Find the Roots

Name: _____

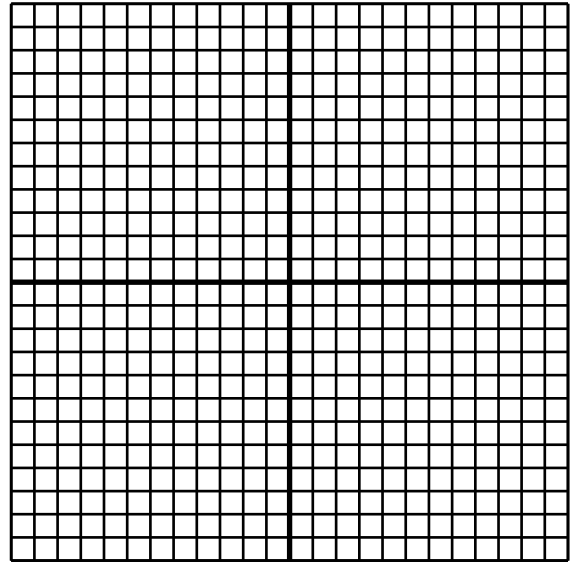
Period: _____

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

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

Vertex: _____

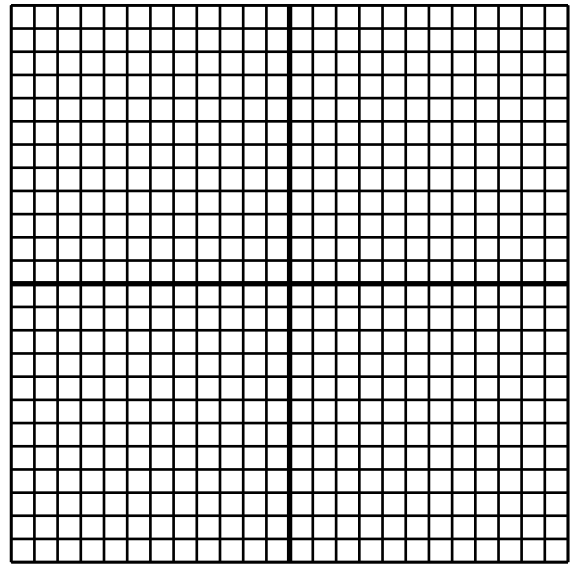
Roots: _____



2. $y = -(x + 4)^2 + 5$

Vertex: _____

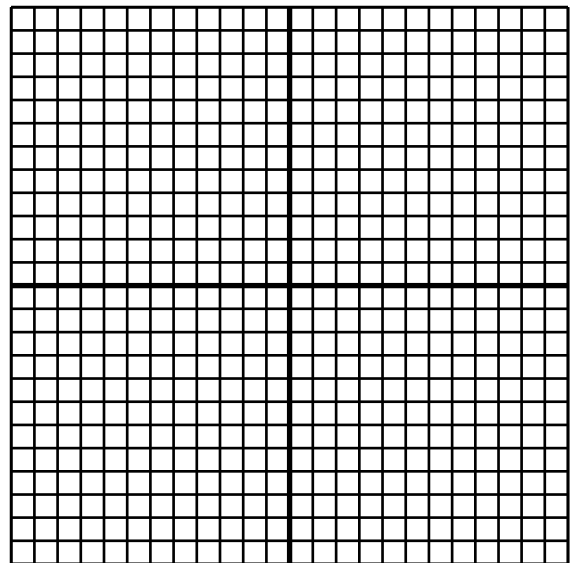
Roots: _____



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

Vertex: _____

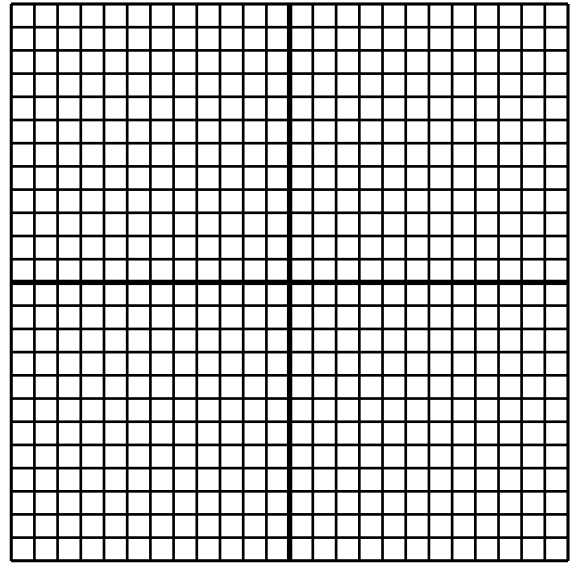
Roots: _____



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

Vertex: _____

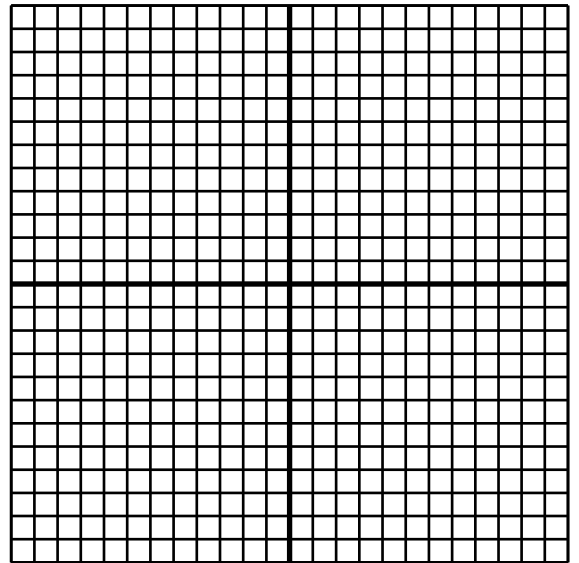
Roots: _____



5. $y = 3(x+1)^2 - 12$

Vertex: _____

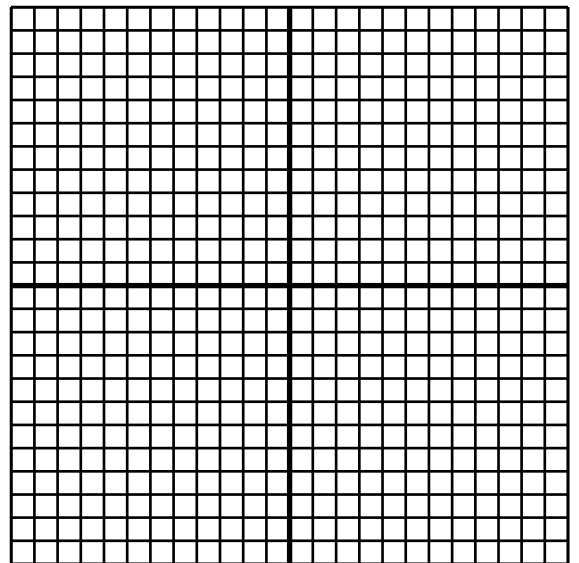
Roots: _____



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

Vertex: _____

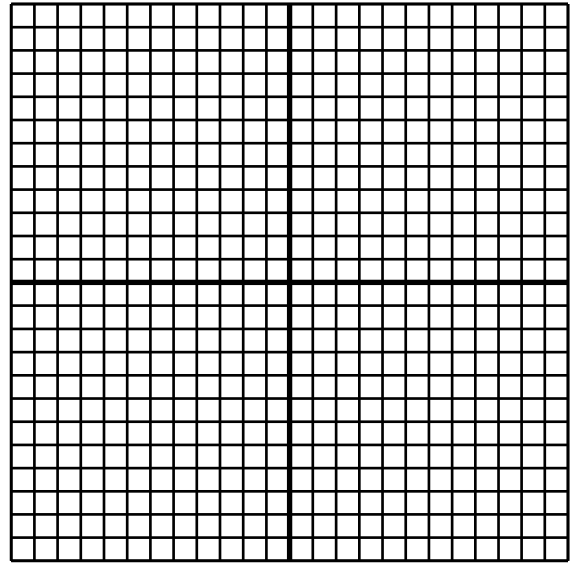
Roots: _____



7. $y = (x + 6)^2 + 4$

Vertex: _____

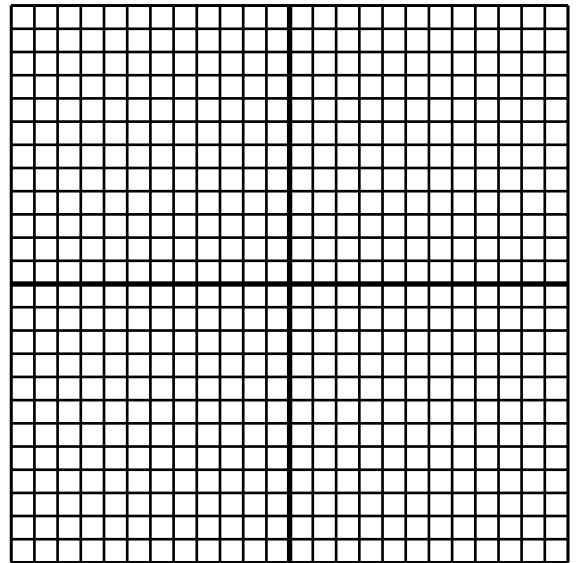
Roots: _____



8. $y = -2(x - 5)^2 + 9$

Vertex: _____

Roots: _____



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

Vertex: _____

Roots: _____

