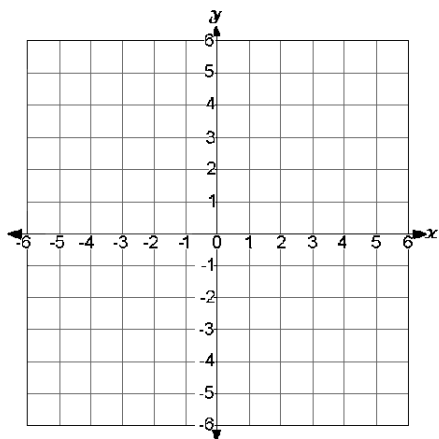


## Algebra 2 Worksheet 2A

Graph each parabola. Determine the vertex, axis of symmetry, domain, and range for each function.

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



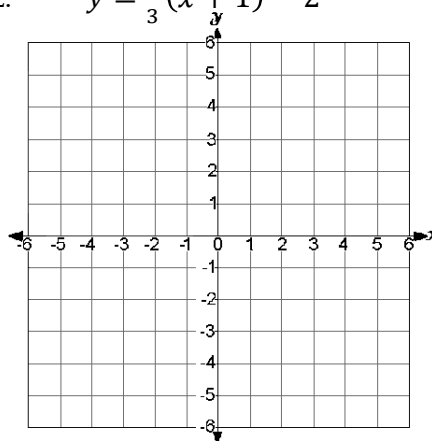
Vertex: \_\_\_\_\_

Axis of Symmetry: \_\_\_\_\_

Domain: \_\_\_\_\_

Range: \_\_\_\_\_

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



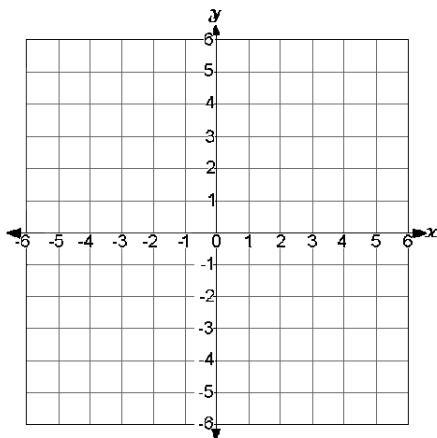
Vertex: \_\_\_\_\_

Axis of Symmetry: \_\_\_\_\_

Domain: \_\_\_\_\_

Range: \_\_\_\_\_

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



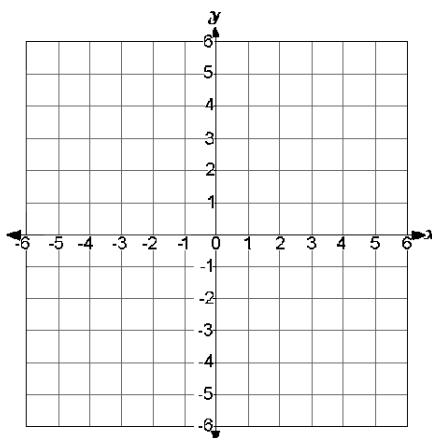
Vertex: \_\_\_\_\_

Axis of Symmetry: \_\_\_\_\_

Domain: \_\_\_\_\_

Range: \_\_\_\_\_

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



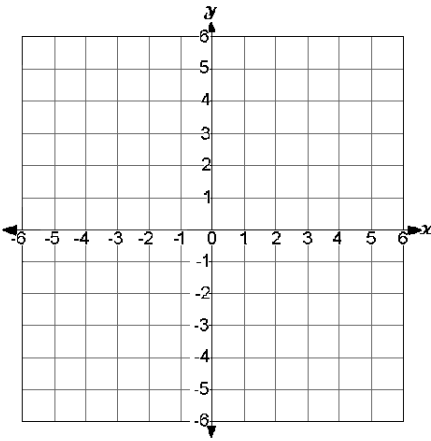
Vertex: \_\_\_\_\_

Axis of Symmetry: \_\_\_\_\_

Domain: \_\_\_\_\_

Range: \_\_\_\_\_

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



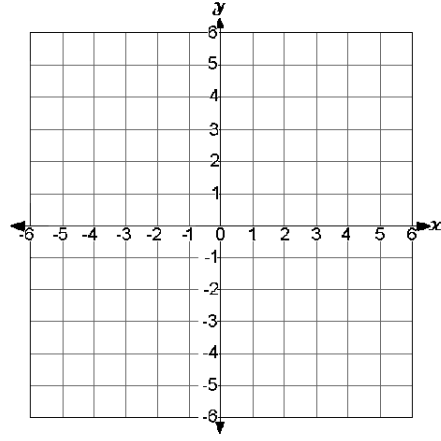
Vertex: \_\_\_\_\_

Axis of Symmetry: \_\_\_\_\_

Domain: \_\_\_\_\_

Range: \_\_\_\_\_

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



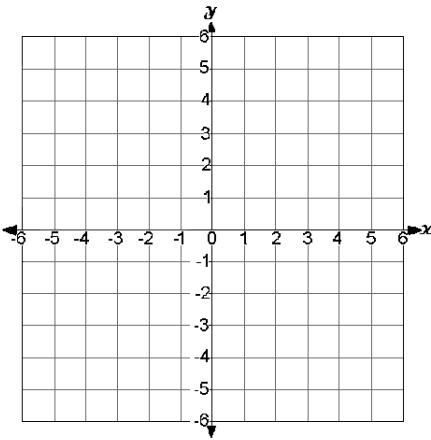
Vertex: \_\_\_\_\_

Axis of Symmetry: \_\_\_\_\_

Domain: \_\_\_\_\_

Range: \_\_\_\_\_

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



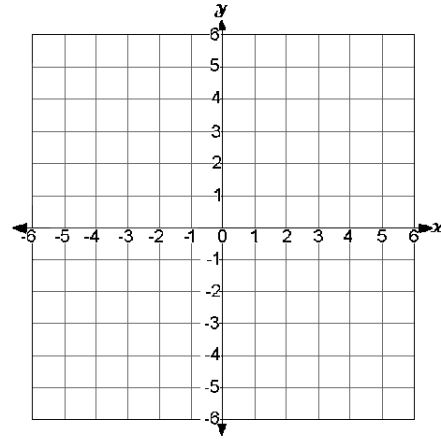
Vertex: \_\_\_\_\_

Axis of Symmetry: \_\_\_\_\_

Domain: \_\_\_\_\_

Range: \_\_\_\_\_

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



Vertex: \_\_\_\_\_

Axis of Symmetry: \_\_\_\_\_

Domain: \_\_\_\_\_

Range: \_\_\_\_\_