

SECTION 2.3: MORE PARABOLAS

Homework: _____

Learning Targets:

2b. Understanding of how to find and describe the different characteristics of quadratic functions.

2d. Understanding of how to graph vertical and horizontal parabolas using vertex form equations

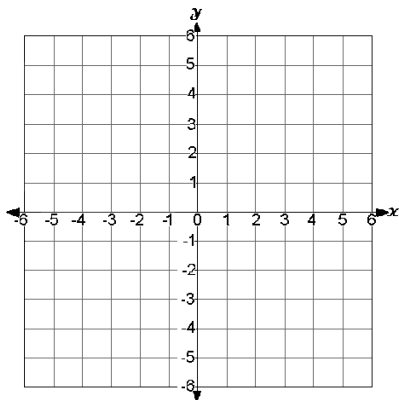
Vertical Parabolas		Horizontal Parabolas	
$y =$		$x =$	
$y = x^2$	$y = -x^2$	$x = y^2$	$x = -y^2$
$y = a(x - h)^2 + k$		$x = a(y - k)^2 + h$	
Axis of Symmetry		Axis of Symmetry	
Domain	Range	Domain	Range

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

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

Vertex: _____ Axis: _____

Direction: _____

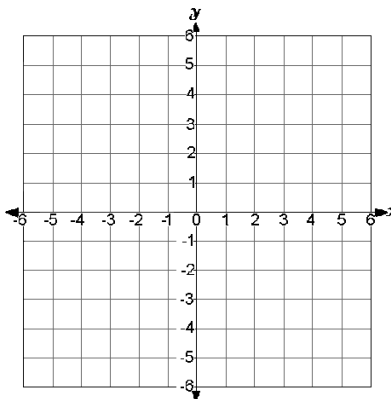


Domain: _____ Range: _____

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

Vertex: _____ Axis: _____

Direction: _____

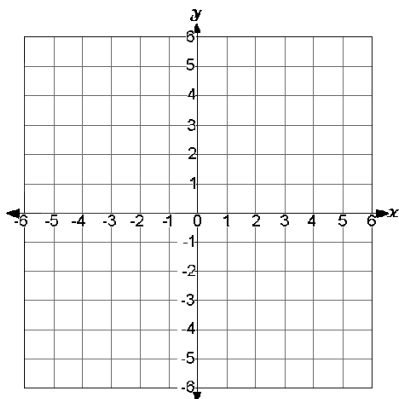


Domain: _____ Range: _____

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

Vertex: _____ Axis: _____

Direction: _____

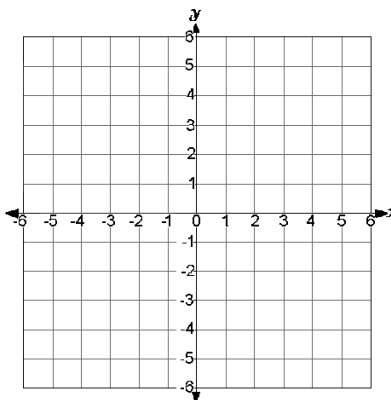


Domain: _____ Range: _____

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

Vertex: _____ Axis: _____

Direction: _____



Domain: _____ Range: _____