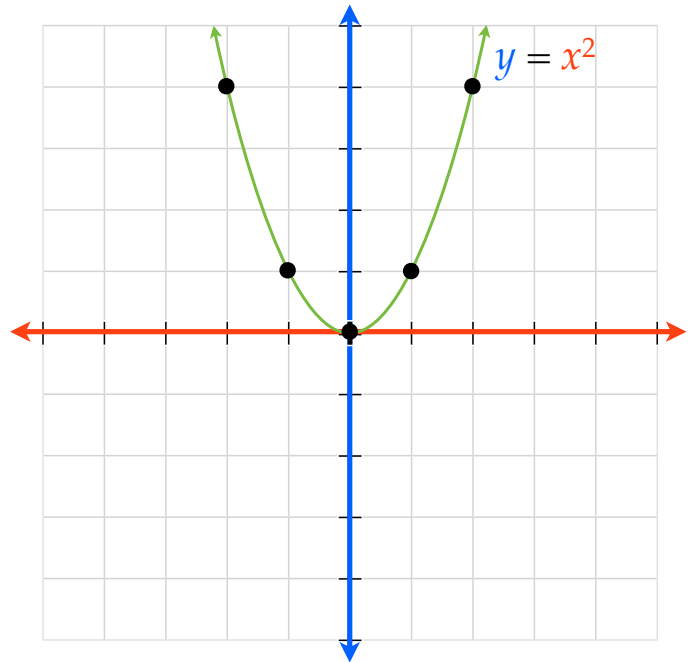


## The Quadratic Parent Function

$$y = x^2$$

$x$	$y$
-2	4
-1	1
0	0
1	1
2	4



## The Quadratic Parent Function

$$y = x^2$$

$$y = a(x - h)^2 + k$$

$a =$

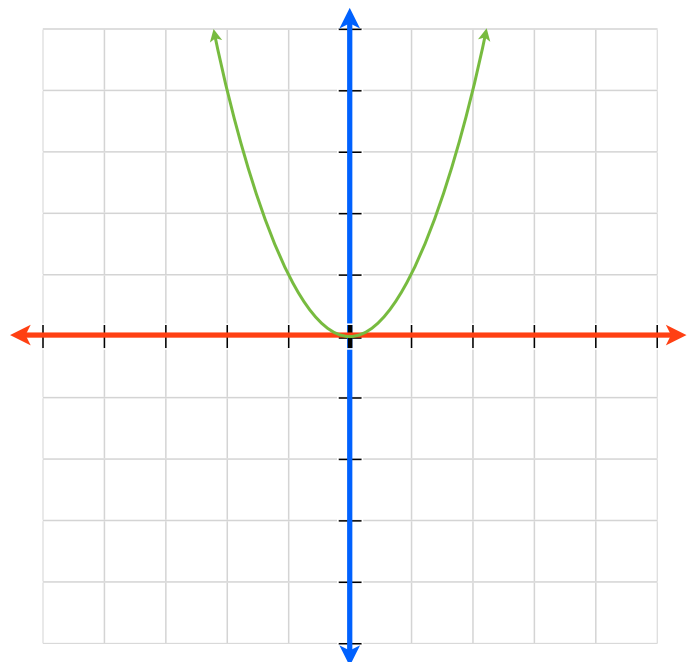
$h =$

$k =$

Thickness  
Reflections

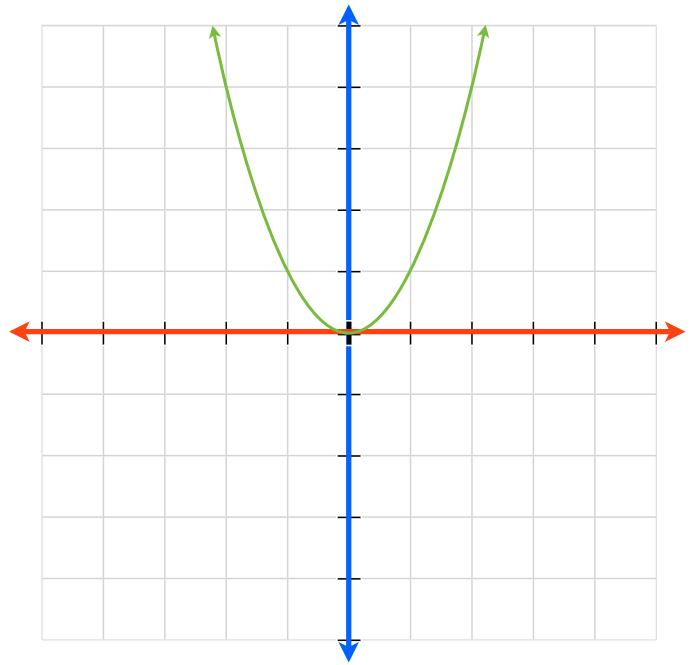
Horizontal  
Translation

Vertical  
Translation



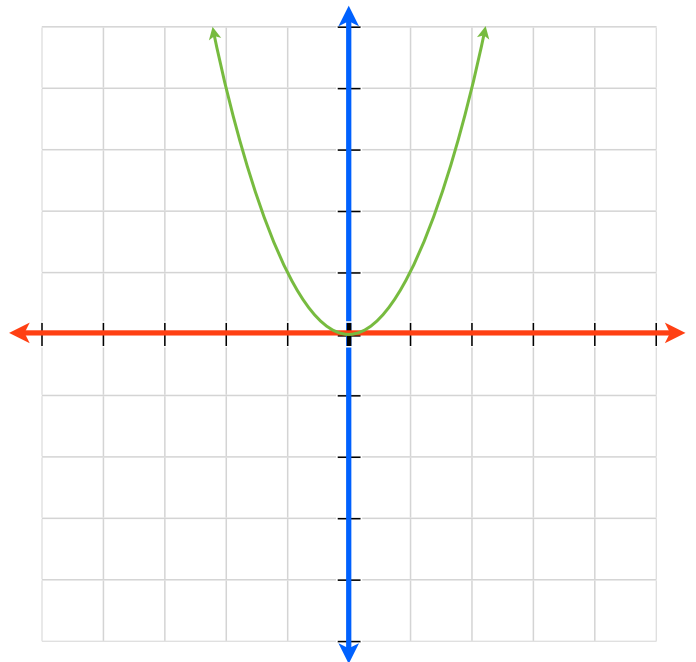
Graph the following Quadratic Functions

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



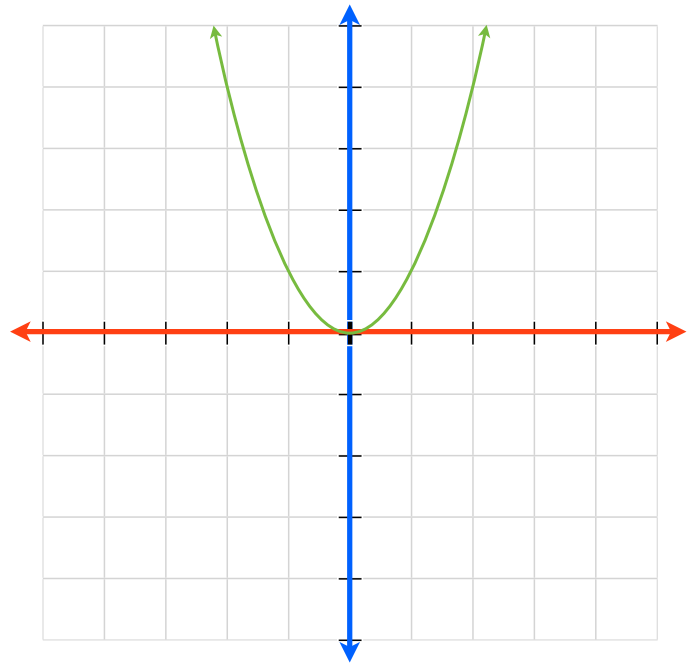
Graph the following Quadratic Functions

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



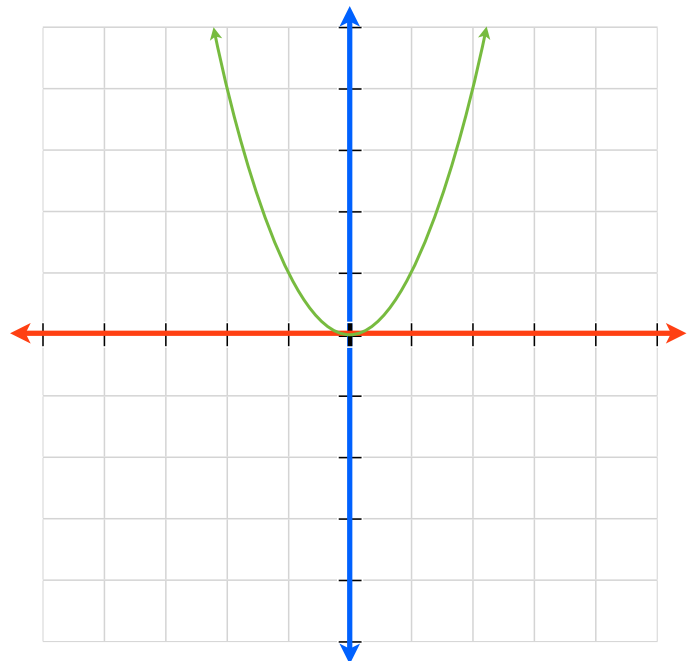
Graph the following Quadratic Functions

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



Graph the following Quadratic Functions

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



## The Quadratic Parent Function

$$y = x^2$$

$$y = a(x - h)^2 + k$$

$a =$

$h =$

$k =$

Thickness  
Reflections

Horizontal  
Translation

Vertical  
Translation

Vertex:  $(h, k)$

