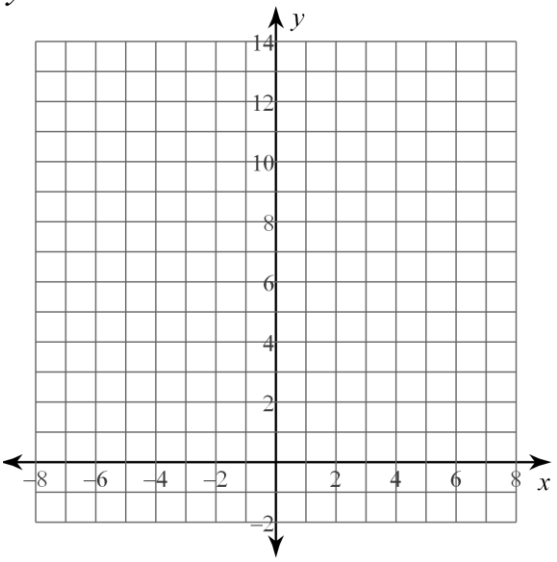
Graphing Quadratic Equations Video Examples Name:_____ Date: _____

Learning Target: I can sketch a graph for a quadratic function in vertex form using the rules of function transformation.

Directions: Follow along with the video to graph the parent function and transformations in these examples.

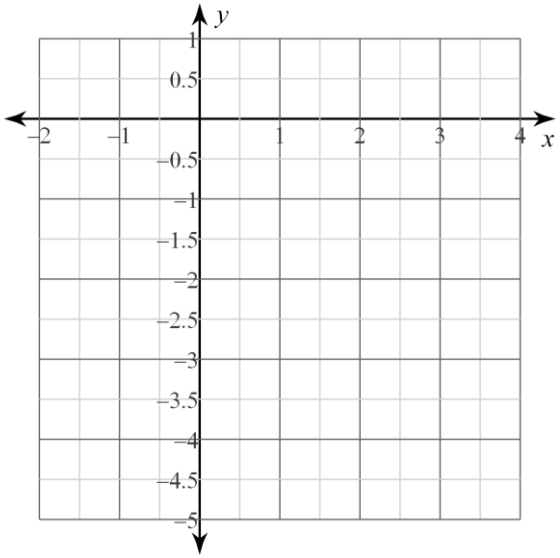
1. Parent Function

$y = x^2$



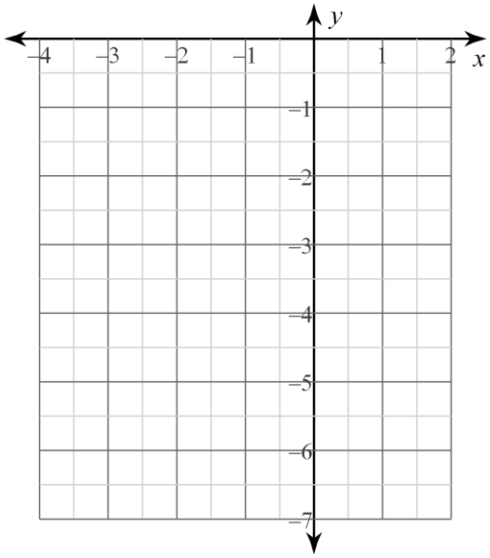
2.

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



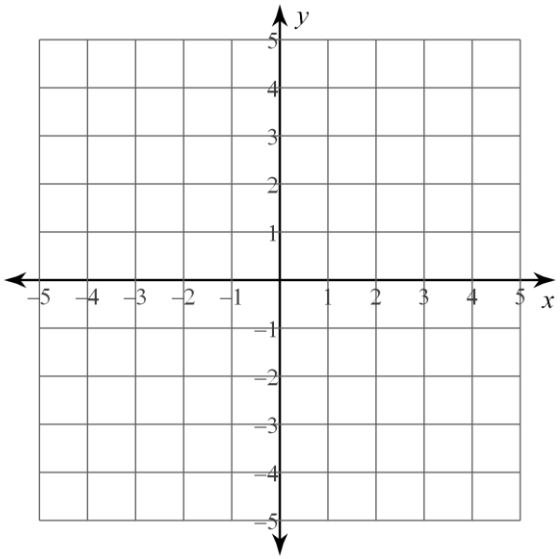
3.

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



4.

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

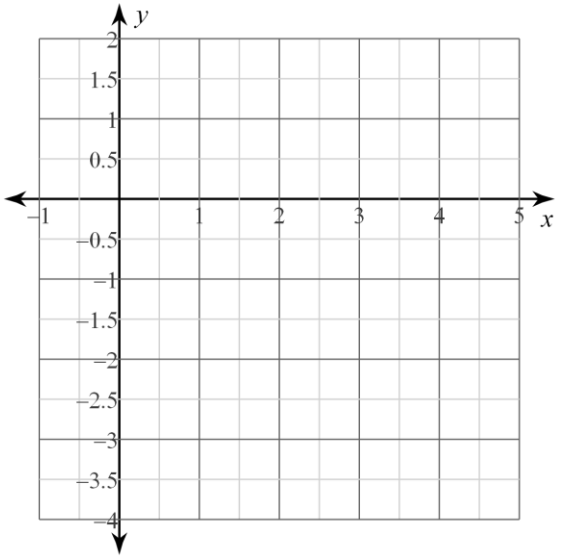


Graphing Quadratic Equations: Your Turn

Graph the quadratic functions using function transformation rules.

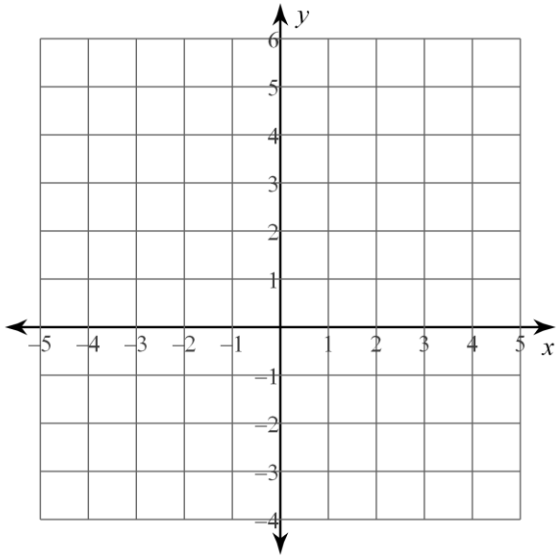
1.

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



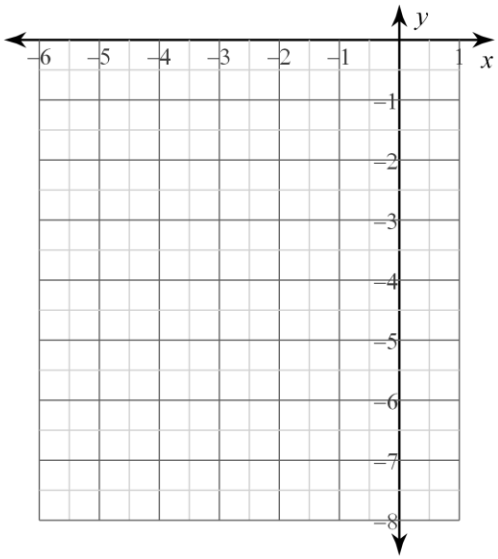
2.

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



3.

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



4.

$$y = -3(x+4)^2 - 1$$