

Name: _____

Date: _____

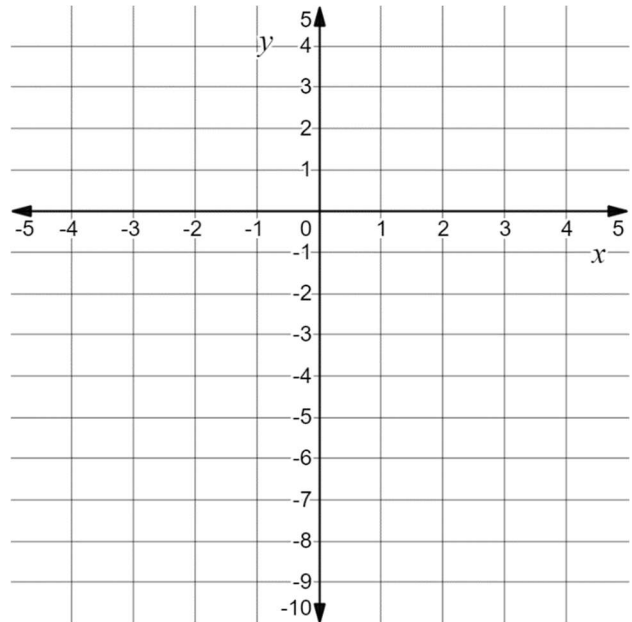
Learning Goal 3.1

Given a quadratic function, identify the transformations that graph has undergone from the standard graph of $y = x^2$.

Quadratic FunctionGraph the function $f(x) = -x^2$.

Table of Values:

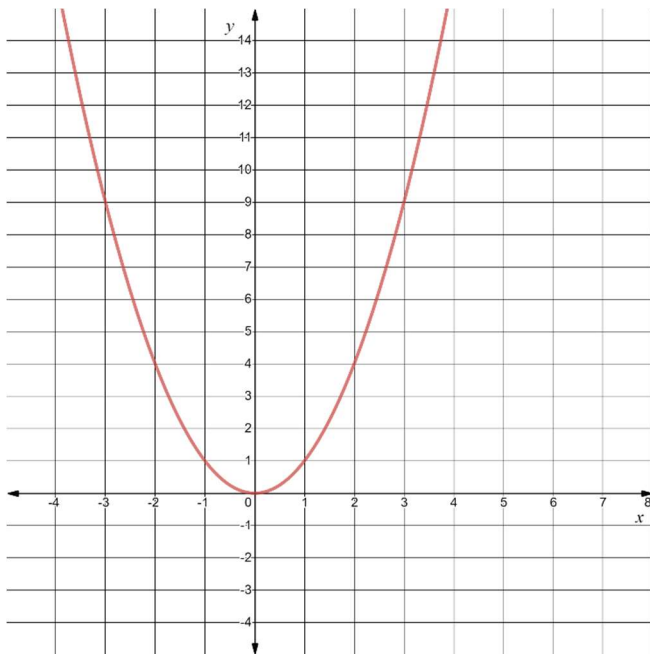
x	y
-2	
-1	
0	
1	
2	

**Vertex****Axis of Symmetry****Maximum/Minimum Value****Parabola****Intercepts****Domain****Range**

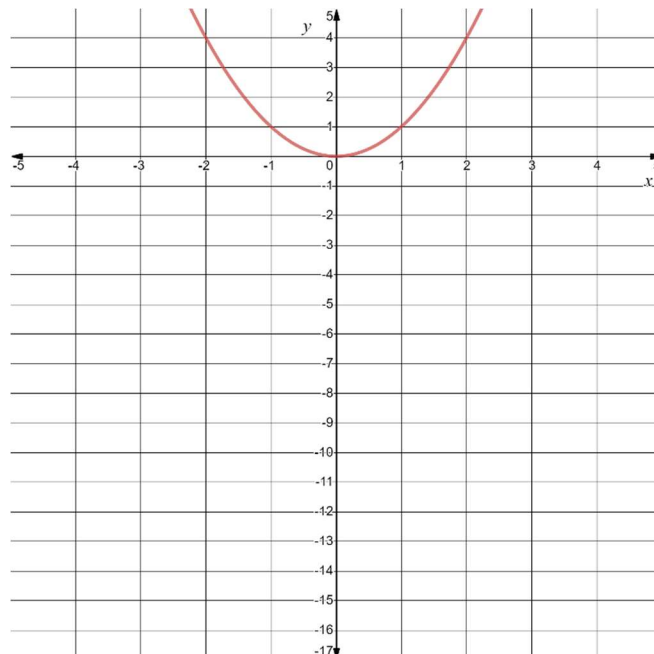
Vertex Form

In your groups, without the use of a graphing calculator, graph these functions.

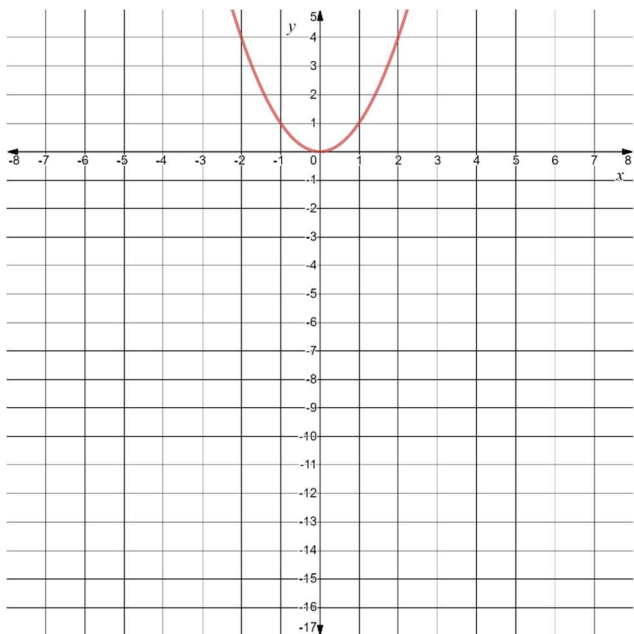
Graph $f(x) = \frac{1}{2}(x - 2)^2 - 4$



Graph $f(x) = -2(x + 1)^2 + 3$



Graph $f(x) = -\frac{1}{3}(x + 1)^2 - 3$



Graph $f(x) = 4(x - 4)^2 - 8$

