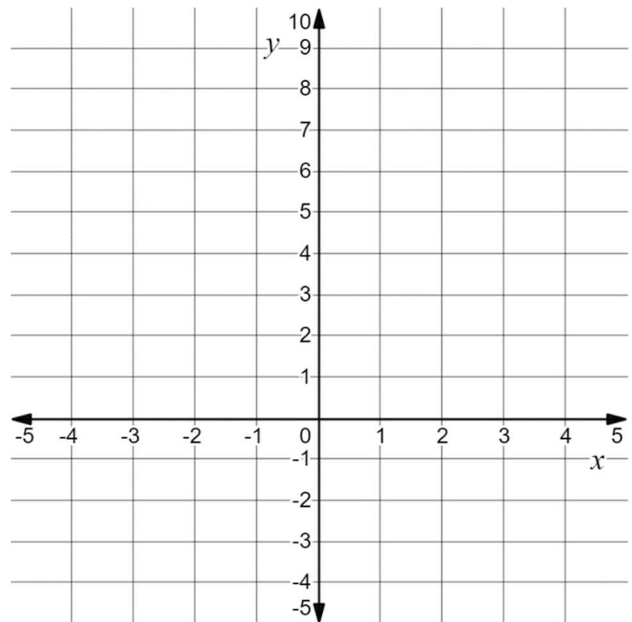Name: _____   Date: _____

Learning Goal 3.1	Given a quadratic function, identify the transformations that graph has undergone from the standard graph of $y = x^2$.

Quadratic Function

Graph the function $f(x) = x^2$.

Table of Values:

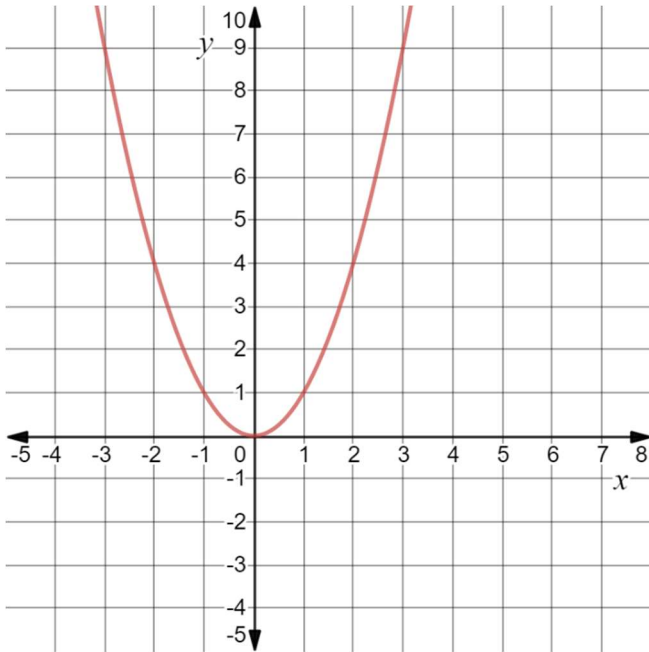| x	y
-2	
-1	
0	
1	
2	

Vertex

Axis of Symmetry   **Maximum/Minimum Value**

Parabola   **Intercepts**

Domain   **Range**

Assignment   Handout   Quiz Next Day!
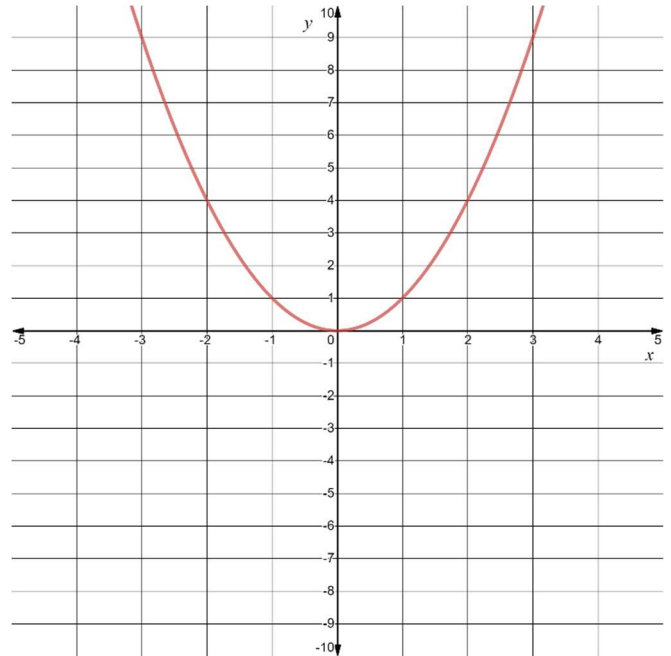
Vertex Form

In your groups, without the use of a graphing calculator, graph these functions.
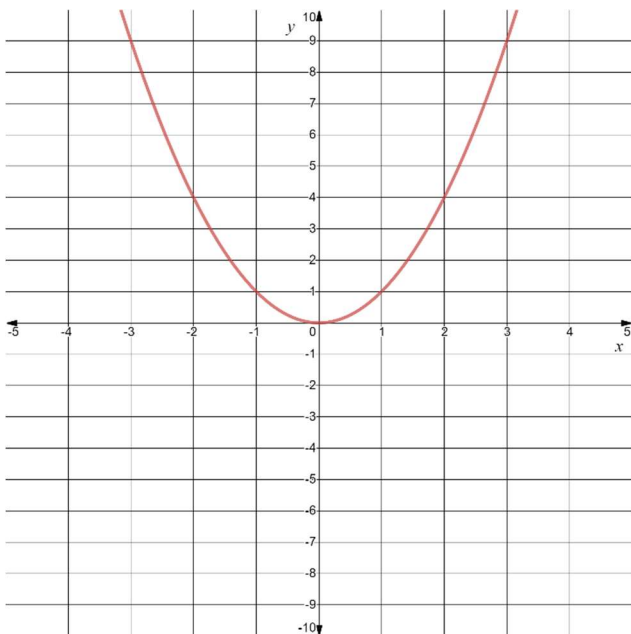
Graph $f(x) = (x - 2)^2 - 4$

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

Graph $f(x) = (x + 1)^2 - 7$

Graph $f(x) = (x - 4)^2 + 1$