Section 3.1 Investigating Quadratic Functions in Vertex Form

Quadratic Functions

Name: _____

Date: _____

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

In your groups, without the use of a graphing calculator, graph these 2 functions using tables of values.





What conclusions can you draw about what is happening to your graph?

Use those conclusions to graph the following functions (trying not to use a table of values).





Assignment

p. 157 # 1 – 12, 16, 19, 21

Quiz Next Day!

In your groups, without the use of a graphing calculator, graph these 2 functions using tables of values.





What conclusions can you draw about what is happening to your graph?

Use those conclusions to graph the following functions (trying not to use a table of values).





What would you say about the graph of the function $f(x) = ax^2$ if

• a < 0? • 0 < a < 1? • a > 1?