U3:L1 Quadratic Functions in vertex form Graph the following functions on separate graph paper.

( $x, y$ ) "ORIGIN" STRETCH $x 2$ VERTICAL



 compressed vert.

Graph the following graphs on separate graph paper.
Compare them to graph \#1 using descriptive words in the space below:


The graph of a quadratic function is always a parabola
When the graph opens upward, the verte_ is the lowest point on the graph, viceversa for opening downward.


Parabolas are always symmetrical
 The coordinate of the Vertex tells
 you the maximum or minimun value of the quadratic.

(a)

(b)


