10.1 Day 2 - Graphing Quadratics in Vertex Form

VERTEX FORM OF A QUADRATIC:

The vertex is ______. The axis of symmetry is ______

When a > 0, the parabola opens_____. When a < 0, the parabola opens _____

Steps to graph a quadratic in vertex form:

- 1) Identify a, h, and k
- Draw the axis of symmetry, x=h
- Plot the vertex, (h,k)
- Plot 2 points on either side of the vertex, then draw a parabola through the points.

Example 1: Graph $y = -2 (x - \frac{3}{2}) 1$

a = ____ h = ____ k = ____

Opens: UP or DOWN

Axis of Symmetry:

Vertex:

