

Name \_\_\_\_\_

Notes – Writing the Equation for a Quadratic Equation  
(Use the vertex and a point.)

Find the equation of the quadratic function that contains the vertex (1, -3) and the point (2, 0).  
 $y=a(x-h)^2+k$

1. Plug in the vertex.

2. Plug in x & y coordinates of the point given.

3. Solve for "a."

4. Now substitute the value of a and the coordinates of the vertex into the vertex form to write the equation.

5. Check your answer by putting the equation into a graphing calculator.

Try this: Write the equation for the parabola with vertex (0, -3) and the point (1, 1).

Follow steps 1-5 above!