

Quadratic Equations: Standard and Vertex Forms

Name: _____

Period: _____

Due: Thursday 9.1.2016

1. Find axis of symmetry

$$y = 2x^2 + 36x + 170$$

2. Find axis of symmetry

$$x^2 - 12x + y + 40 = 0$$

3. Find axis of symmetry and vertex

$$-\frac{1}{3}y - \frac{4}{3} = (x - 2)^2$$

4. Describe the transformations

$$f(x) = -\frac{1}{4}(x - 1)^2 + 4$$

5. Graph this equation $f(x) = -\frac{1}{4}(x - 1)^2 + 4$ by hand (no graphing calculator)? Hint: Create a table.

