

Name: _____

Date: _____

Parabolas in Vertex Form

Identify the vertex of the following parabolas:

1) $y = 3(x - 4)^2 + 9$

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

Find the y-intercept of the following parabolas:

3) $y = 2(x - 4)^2 - 6$

4) $h(x) = \frac{1}{5}(x + 3)^2 - 2$

Find the x-intercepts of the following parabolas:

5) $y = 3x - 2x^2 - 8$

6) $g(x) = -0.2x - 3x^2 + 4$

Describe the graph of the following parabolas:

7) $f(x) = 3x + 2x^2 - 3$

8) $y = -0.2x - 10x^2 + 5$