

Name: _____

Date: _____

VERTEX FORM OF PARABOLAS

Use the information provided to write the vertex form equation of each parabola.

1)

$$y = (x + 5)(x + 4)$$

2)

$$y = x^2 - 6x + 5$$

3)

$$y = x^2 + 4x$$

4)

$$y = x^2 - 12x + 46$$

5)

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

6)

$$y = -x^2 - 14x - 59$$

7)

$$6x^2 + 12x + y + 13 = 0$$

8)

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

9)

$$y = x^2 - 2x - 5$$

10)

$$y = x^2 + 16x + 71$$