

## 11-1 Graphing Quadratic Equations - Finding Vertex (ver4)\_hw

Identify the vertex of each graph of the following functions.

1)  $y = x^2 + 10x + 23$

2)  $y = -x^2 - 2x - 6$

3)  $y = 2x^2 - 8x + 13$

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

5)  $y = x^2 - 6x + 13$

6)  $y = -2x^2 + 24x - 78$

7)  $x = y^2 + 4y - 2$

8)  $x = y^2 - 6y + 4$

9)  $y = 8x^2 - 32x + 22$

10)  $y = 4x^2 + 40x + 101$

## Answers to 11-1 Graphing Quadratic Equations - Finding Vertex (ver4)\_hw

1)  $(-5, -2)$

2)  $(-1, -5)$

3)  $(2, 5)$

4)  $(2, 0)$

5)  $(3, 4)$

6)  $(6, -6)$

7)  $(-6, -2)$

8)  $(-5, 3)$

9)  $(2, -10)$

10)  $(-5, 1)$