

10P

4.10 Vertex Form

The next for that we want to look at is called the Vertex Form.

$$y = a(x - h)^2 + k$$

Example 1: State the vertex, then expand to Standard Form. State the y-intercept.

a) $y = 3(x - 6)^2 + 5$

b) $y = -2(x + 5)^2 - 14$

4.10 Vertex Form

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State the vertex. Then expand to Standard Form. State the y-intercept.

1) $y = 4(x - 4)^2 - 5$

2) $y = 2(x + 6)^2$

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

4) $y = 16(x - 9)^2 - 8$

5) $y = (x - 8)^2 - 7$

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

7) $y = -2(x - 8)^2 + 7$

8) $y = -4(x + 4)^2 + 10$

9) $y = -3(x - 8)^2 + 5$

10) $y = -11(x + 1)^2 + 1$