

Converting Quadratic Equations Worksheet: Standard to Vertex

Convert the following quadratics from vertex form to standard form.

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

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

3) $y = (x + 4)^2 + 4$

For number's 4-9, find the vertex using two different methods. (-b/2a and putting in vertex form)

4) $y = x^2 - 8x + 15$

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

6) $y = x^2 + 8x + 18$

7) $y = x^2 + 4x + 3$

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

9) $y = x^2 - 8x + 17$

Convert the following quadratics from standard form to vertex form, then graph them.

10) $y = x^2 - 6x + 7$

11) $y = x^2 + 6x + 5$