

Converting Standard to Vertex Form

Thursday, December 6, 2018

10:15 AM

Converting Quadratic Equations Worksheet: Standard to Vertex

Convert the following quadratics from vertex form to standard form.

1) $y = -(\underline{x-1})^2 - 1$

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

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

$$y = -x^2 + 2x - 1 - 1$$

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

2) $y = 2(\underline{x-2})^2 - 3$

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

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

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

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

$$y = x^2 + 8x + 16 + 4$$

$$y = x^2 + 8x + 20$$