

Convert to Vertex Form

Ex 6) $y = 4x - 2x^2$

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

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

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

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

Vertex? $(1, 2)$

Extreme Value? 2