D5: Factored form Pt II WS B

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7.4 – Factored Form of a Quadratic

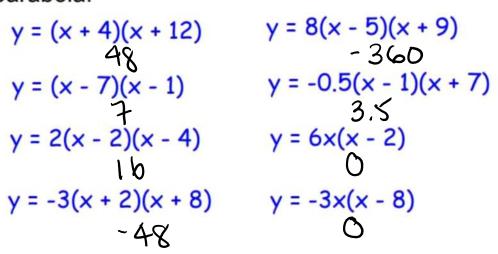
Find my Vertex!

Determine the vertex of each parabola.

1. y = (x + 4)(x + 12) 5. y = 8(x - 5)(x + 9)2. y = (x - 7)(x - 1)3. y = 2(x - 2)(x - 4)4. y = -3(x + 2)(x + 8)5. y = -3x(x - 8)1. r = -45. (-3, 8)1. r = -165. (-3, 8)1. r = -165. (-3, 8)

What's my y-Intercept?

Determine the parabola. y-intercept of each



Part 3: Determine all of the interesting points for the following functions and then sketch the graph.

(x-intercepts, vertex, y-intercept)

$$y = x^{2} + 9x + 18$$

$$y = -x^{2} - 3x - 2$$

$$y = (x + 6)(x + 3)$$

$$x + (x + 3)$$

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

$$y = 2x^{2} - 16x + 30$$

$$y = 2(x^{2} - 8x + 15)$$

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

$$y = 2(x^{2} - 8x + 15)$$

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

$$y = 2(x^{2} - 8x + 15)$$

$$y = -3x^{2} - 12x$$

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

Foundations 11

Riverside Math