

3.3 x-intercepts and Quadratic Formula

Factoring Review

GCF $2x^2 - 8x$ $2 \times (x - 4)$ Trinomial $x^2 + 7x + 12$ (x + 3)(x + 4)

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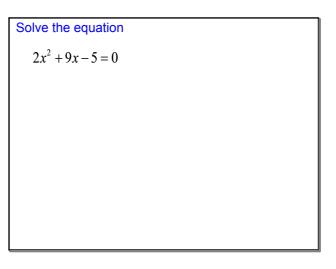
$$3x^{2} + 7x + 2
(3x + 1)(x + 2)
4x^{2} - 9x + 2
(4x - 1)(x - 2)$$

x-intercept is where y=0

Solve the equation $\begin{pmatrix}
x^2 - 5x + 6 = 0 \\
(x^2 - 3x)(-2x + 6)
\\
(x^2 - 3x)(-2x + 6)$

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Solve the equation $3x^{2} + 7x + 2 = 0$ (3x + 1)(x + 2) = 0 $3x + 1 = 0 \quad x + 2 = 0$ 3x = -1 $x = -\frac{1}{3} \quad x = -2$



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quadratic formula

another way to solve for x-intercepts

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Solve the equation
$$x^{2}-6x+4=0$$

$$X = 6 \pm \sqrt{3}6-4\cdot 1\cdot 4$$

$$= 6 \pm \sqrt{3}6-16 = 6 \pm \sqrt{20}$$

$$= 6 \pm 2\sqrt{5} = 3 \pm \sqrt{5}$$

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