## P.5 Solving Equations

Objectives: 8) I can solve equations with the square root property.

9) I can solve equations by completing the square.

10) I can solve quadratic equations by factoring.

11) I can solve quadratic equations with the quadratic formula.

12) I can solve quadratic equations by finding x-intercepts.

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Solve the equation by extracting square roots.

$(2x-1)^2=9$ $4x^2=25$ $x^2+2=6$

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Solve the equation by completing the square.

$x^2-8x-5=0$ $x^2-12x-7=0$

$x^2+10x=17$

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Solve the quadratic equations by factoring.

$x^2+8x+15=0$ $2x^2-5x=3$

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Solve the equation using the quadratic formula.

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

$3x^2 - 6x = 5$

$2x^2 - 3x + 1 = 0$

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Solve the equation by finding the x-intercepts.

Use a graphing calculator

$2x^2 - 3x - 2 = 0$

$x^2 + 4x + 3 = 0$

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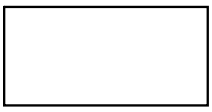
Mr. Mathman has a rectangular shaped garden where the length is 2 less than twice the width. If the area of the garden is 420 square feet, find the dimensions of the garden.



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