

Bell Ringer - Solve the quadratic. Leave in simplified radical form.

$$2x^2 - 30 = 168$$

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$$2x^2 - 30 = 168$$

$$+30 \quad +30$$

$$2x^2 = 198$$

$$x^2 = 99$$

$$x = \pm \sqrt{99}$$

$$x = \pm 3\sqrt{11}$$

## Chapter 10 Review - Solving Quadratic Equations

Solve the equation. Round decimal answers to the nearest hundredth.

1.  $5x^2 - 10x = 120$

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1.  $5x^2 - 10x = 120$

$$5x^2 - 10x - 120 = 0$$

$$5(x^2 - 2x - 24) = 0$$

$$5(x - 6)(x + 4) = 0$$

$$x = 6 \text{ and } -4$$

## Chapter 10 Review - Solving Quadratic Equations

Solve the equation. Round decimal answers to the nearest hundredth.

2.  $2x^3 - 4x^2 - 30x = 0$

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Solve the equation. Round decimal answers to the nearest hundredth.

2.  $2x^3 - 4x^2 - 30x = 0$

$$2x(x^2 - 2x - 15) = 0$$

$$2x(x - 5)(x + 3) = 0$$

$$x = 0, 5, -3$$

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Solve the equation. Round decimal answers to the nearest hundredth.

3.  $-3x^2 - 7x + 84 = 0$

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Solve the equation. Round decimal answers to the nearest hundredth.

$$3. -3x^2 - 7x + 84 = 0$$

$$b^2 - 4ac$$

$$49 - 4(-3)(84)$$

$$49 + 1008 = 1057$$

$$\frac{7 \pm \sqrt{1057}}{-6}$$

$$\frac{7 \pm 32.5}{-6}$$

$$-6.58, 4.25$$

not a perfect  
square



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4.  $x^3 - 2x^2 - 5x + 10 = 0$

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$$4. (x^3 - 2x^2)(5x + 10) = 0$$

$$x^2(x-2) - 5(x-2) = 0$$

$$(x-2)(x^2-5) = 0$$

$$x = 2, \pm\sqrt{5}, \text{ or } \pm 2.24$$