

Extra Practice *(continued)***Chapter 4****Lesson 4-5**

Solve each equation by factoring, by taking square roots, or by graphing. When necessary, round your answer to the nearest hundredth.

35. $x^2 + 4x - 5 = 0$
 $\{-5, 1\}$

36. $4x^2 - 100 = 0$
 $\{\pm 5\}$

37. $x^2 = -2x + 8$
 $\{-4, 2\}$

38. $x^2 - 9 = 0$
 $\{\pm 3\}$

39. $2x^2 + 4x = 70$
 $\{-7, 5\}$

40. $x^2 - 30 = 10$
 $\{\pm \sqrt{40}\}$

41. $x^2 + 4x = 9$
 $\{-6, -2\}$

42. $x^2 + 3x + 2 = 0$
 $\{-2, -1\}$

43. $x^2 + 8x = -16$
 $\{-4\}$

44. Hal's sister is 5 years older than Hal. The product of their ages is 456. How old are Hal and his sister? $\{19 \text{ years old}, 24 \text{ years old}\}$

45. A toy rocket is fired upward from the ground. The relation between its height h , in feet, and the time t from launch, in seconds, can be described by the equation $h = -16t^2 + 64t$. How long does the rocket stay more than 64 feet above the ground? $\{2 \text{ s}\}$

46. The expression $P(x) = 2500x - 2x^2$ describes the profit of a company that customizes bulldozers when it customizes x bulldozers in a month.

- How many bulldozers per month must the company customize to make the maximum possible profit? What is the maximum profit? $\{525 \text{ bulldozers}; \$781,250\}$
- Describe a reasonable domain and range for the function $P(x)$. $\{x = 0; P(x) = \$781,250\}$
- For what number of bulldozers per month is the profit at least \$750,000? $\{500 \leq x \leq 750\}$

47. Flor is designing a kite with two perpendicular crosspieces that are 26 inches and 24 inches long, as shown in the figure. How long should AK be so that $AK \perp BC$ and $AD \perp DC$? $\{8 \text{ in.}\}$



48. The lengths of the sides of a right triangle are x , $x + 4$, and $x + 8$ inches. What is the value of x ? What is the length of the hypotenuse of the triangle? $\{12; 20 \text{ in.}\}$

Lessons 4-6 and 4-7

Solve each equation by completing the square or using the Quadratic Formula.

49. $x^2 + 5x + 6 = 0$ $\{-2, -3\}$

50. $2x^2 - 5x + 1 = 0$
 $\frac{5 \pm \sqrt{33}}{4}$

51. $x^2 - 7x = 0$ $\{0, 7\}$

52. $x^2 + 4x + 4 = 0$
 $\{-2\}$

53. $x^2 - 7 = 0$
 $\pm \sqrt{7}$

54. $x^2 + 8x - 17 = 0$
 $\{-4 \pm \sqrt{33}\}$

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