

27. $x = -3$

29. $x = 6$ and $x = 2$

31. $n = 0$ and $n = 6$

33. $w = 12$ and $w = 2$

35. $x = 4$

37. $x = 3$

39. $u = 0$ and $u = -9$; *Sample answer:* factoring because the equation can be factored

41. no real solution; *Sample answer:* square roots because the equation can be written in the form $u^2 = d$

43. $x = 6$ and $x = 2$; *Sample answer:* square roots because the equation can be written in the form $u^2 = d$

45. $x = -0.5$ and $x = -2.5$; *Sample answer:* factoring because the equation can be factored

47. $x = -2$ and $x = -4$

49. $x = 3$ and $x = -10$

51. $x = 3$ and $x = -2$

53. $x = -11$

57. \$5.75; \$1983.75

68. $(x + 25)(x + 15) = 375 + 329$ or $x^2 + 40x - 329 = 0$; 7 ft