

Solve each equation. Verify the solution.

35. $3x + 5 = 17$

36. $4x + 9 = 9$

37. $4 - 5w = -36$

38. $45 = 4x + 9$

39. $-7v - 7 = 14$

40. $-y + 12 = 10$

41. $-8 = -p + 12$

42. $-8 = 5x - 8$

43. $2y + 6 = 0$

44. $3y - 5 = 0$

45. $3v + 1 = 0$

46. $0 = -20 - 4x$

47. $0 = 15 - 10x$

48. $2 - 2k = -7$

49. $4m - 9 = -39$

50. $10 = -5p + 18$

51. $16 + 12k = 1$

52. $\frac{1}{3}x - 2 = 3$

53. $\frac{2}{3}x + 9 = 7$

54. $6 - \frac{2y}{5} = 10$

Think Outside the Box.

Solve each equation by first combining like terms, as necessary.

55. $8w - 5w + 1 = -8$

56. $-2y - 3 - 4y = -27$

57. $13 = 2x - 7x + 28$

58. $-15 = -7q + 4q + 21$

Each of these contains a variable term on each side of the equation. To solve, first manipulate each equation to be in standard form by clearing one of the variable terms (add its opposite to each side of the equation). Then finish solving the equation.

59. $7w + 19 = 4w - 8$

60. $-2y + 1 = 4y + 16$

61. $13 - 5x = -8 - 2x$

62. $-14 - 3p = 7p + 26$