

EXERCISES

Solve each equation. Check your solution.

1. $2x + 5x = 28$
2. $5x - 2x = 27$
3. $-5x + 2x = 15$
4. $-5x - 2x = 21$
5. $2a = 20 - 3a$
6. $3y = 15 - 2y$
7. $4y - 10 = 2y$
8. $3a - 15 = 2a$
9. $5x - 3x = 2 - 8$
10. $5x - 8x = 8 - 2$
11. $3y - 5y = 2 - 8$
12. $8y - 5y = -2 - 8$
13. $7a = 9a + 24$
14. $8a = 7a - 15$
15. $4m = 3m + 2$
16. $-4m = 3m + 14$
17. $5x - 2 = 30$
18. $5x + 2 = 30$
19. $-5x + 2 = 30$
20. $-5x + 2 = -30$
21. $6y = 4y - 20$
22. $6y = -4y + 20$
23. $-6n = 4n - 20$
24. $6n = -4n - 20$
25. $5x = 8 + 3x$
26. $5x = -3x - 8$
27. $5y = 19y + 7$
28. $5y = 19y - 7$
29. $4 = 5p - 7p$
30. $4 = 7p - 5p$
31. $15 = 3c + 7c$
32. $15 = 3c - 7c$
33. $-8 = 7c - 5c$
34. $-8 = 5c - 7c$
35. $-9 = 6p - 8p$
36. $-9 = 8p - 6p$
37. $1.2x + 3.4x = 9.2$
38. $3.4x - 1.2x = 8.8$
39. $4.2y - 3y = 4.8$
40. $3y - 4.2y = 4.8$
41. $3.2 = 2y + 3y$
42. $3.2 = 3y - 2y$
43. $3.2 = 2k - 3k$
44. $3.2 = -k + 5k$
45. $1.2 = c + c$
46. $-2.4 = 2c + c$
47. $1.2 = 3n - n$
48. $2.4 = n - 3n$
49. $3x + 4x = 8.4$
50. $3x - 4x = 8.4$
51. $3x - 4x = -8.4$
52. $4x - 3x = -8.4$
53. $1.5x = 0.5x - 10$
54. $3.5x = -0.5x + 10$

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55. $3.5y = y - 12$

56. $3.5y = -y + 6.3$

57. $2.5n = 1.5n + 8$

58. $2.5n = -1.5n + 8$

59. $2m + 6.2 = 7.4$

60. $2m - 6.2 = 7.4$

61. $\frac{x}{2} + 2 = 4$

62. $\frac{x}{2} - 2 = 4$

63. $\frac{y}{3} + 4 = 7$

64. $\frac{y}{3} - 4 = 7$

65. $\frac{k}{5} - 6 = 9$

66. $\frac{k}{5} + 6 = 9$

67. $-\frac{b}{6} + 4 = -3$

68. $-\frac{b}{6} - 4 = 3$

69. $\frac{x}{8} + 1.2 = 3$

70. $\frac{x}{8} - 1.2 = 3.1$

71. $\frac{1}{2}x + \frac{1}{3}x = 10$

72. $\frac{1}{2}x - \frac{1}{3}x = 10$

73. $\frac{y}{2} = \frac{y}{3} - 4$

74. $\frac{y}{2} = -\frac{y}{3} - 4$

75. $\frac{y}{2} = \frac{y}{5} + 6$

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

77. $\frac{5}{3}x + \frac{2}{3} = \frac{4}{3}$

78. $\frac{3}{5}x - \frac{2}{15} = \frac{2}{3}$

79. $1\frac{1}{2}x - \frac{3}{4} = \frac{1}{6}$

80. $2\frac{2}{3}x + \frac{1}{12} = \frac{1}{2}$

81. $\frac{n}{3} = \frac{2n}{3} + \frac{1}{4}$

82. $\frac{n}{3} = -\frac{2n}{3} - \frac{1}{4}$

83. $\frac{3n}{4} = \frac{1}{5} - \frac{n}{4}$

84. $\frac{3n}{4} = -\frac{1}{5} + \frac{n}{4}$

85. $\frac{x+5}{4} = 12$

86. $\frac{y-3}{-2} = 10$

87. $\frac{d-7}{3} = -8$

A students said to a priest.

Student: I don't believe that heaven is as good as you said.
You have never been there.

Priest: Have you ever heard of anyone who came back here
because he didn't like it there.