

EXERCISES

Solve each equation. Check your solution.

1. $3x - 16 = x$
2. $2x + 15 = -3x$
3. $5x + 12 = 3x$
4. $4x - 9 = x$
5. $-4y - 7 = 3y$
6. $-6y + 8 = 2y$
7. $2(x - 5 + 3x) = 14$
8. $5(6x + 8 - 2x) = -10$
9. $4(-8 + y + 6) = 4$
10. $2(5 - 2y - 7) = 8$
11. $3(m - 5) = -30$
12. $4(2m + 3) = 28$
13. $-6(a + 3) = 9$
14. $-2(4 - 2x) = -16$
15. $-3(5 + 3x) = 4$
16. $-4(2 + 5a) = 32$
17. $-(-5 + 2x) = -13$
18. $5(2n - 3) = -30$
19. $3x - 6 = 4x - 8$
20. $3x - 6 = 4x + 8$
21. $3x + 6 = -4x - 8$
22. $y + 4 = 5y - 7$
23. $y - 4 = 5y - 7$
24. $y - 4 = -5y + 8$
25. $6m - 3 = m + 11$
26. $6m + 3 = m + 11$
27. $-6m - 3 = m - 11$
28. $-9 + 4n = 10n - 3$
29. $9 - 4n = 10n - 5$
30. $9 - 4n = -10n + 15$
31. $-8 - x = x + 2$
32. $-8 + y = -y - 2$
33. $8 + z = -z + 2$
34. $20c + 5 = 10c + 25$
35. $20c - 5 = 10c - 25$
36. $20c - 5 = -10c + 25$
37. $10 + k = 4k - 20$
38. $10 - k = 4k - 30$
39. $10 - k = -4k - 14$
40. $-12 + b = 3b + 30$
41. $-12 + b = -3b + 32$
42. $12 - b = 3b - 16$
43. $15 + 2p = 39 - p$
44. $15 - 2p = p - 21$
45. $-15 + 2p = p + 40$
46. $100x - 200 = 50x + 50$
47. $100x + 200 = 50x - 50$
48. $10x + 20 = 50x - 60$
49. $40y - 40 = -40y + 40$
50. $40y + 40 = 50y + 50$
51. $40y + 40 = -50y - 50$
52. $7(x + 1) = 5(x - 3)$
53. $7(x - 1) = 5(x + 3)$
54. $-7(x - 1) = 5(x + 3)$
55. $10(y - 2) = -2(2y + 3)$
56. $10(y + 2) = -2(2y - 3)$
57. $-10(-y + 2) = 2(-2y)$
58. $2(x + 3) - 5 = 3x - 6$
59. $2(x - 3) - 5 = 3x + 6$
60. $2(x - 3) + 5 = 3x + 6$
61. $5x - 3(x + 1) = x - 10$
62. $5y - 3(y - 1) = 4y + 1$
63. $6a - 4(2a + 3) = 7a$
64. $3x - 2(5x - 4) = 4x - (2x - 26)$
65. $7y - 3(2y + 6) = 5y - (3y + 10)$