

Solving Linear Equations

Solve. Feel free to use the steps given in Section 9.3.

1. $x - 10 = -4$

4. $-3x = 78$

5. $-6x + 7 = 25$

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

11. $6 - 2x + 8 = 10$

10. $\frac{y}{-8} = 8$

13. $2x - 7 = 6x - 27$

17. $-3a + 6 + 5a = 7a - 8a$

19. $-\frac{2}{3}x = \frac{5}{9}$

15. $9(3x - 1) = -4 + 49$

Answers

1. $x = 6$

2.

3.

4. $x = -26$

5. $x = -3$

6.

7. $x = 27/2$

8. $z = 25/2$

9.

10. $y = -64$

11. $x = 2$

12.

13. $x = 5$

14.

15. $x = 2$

16. $x = 2$

17. $a = -2$

18.

19. $x = -5/6$

20.

21. $1 = n$

22.

23. _____

24. _____

25. $z = 9/5$ 26. $w = -6/5$ 27. **all real numbers**

28. _____

29. _____

30. $m = -1.6$ 31. $y = 4/19$ 32. $x = -5/19$ 33. $x = 7/2$

34. _____

35. **No Solution**

36. _____

37. _____

38. _____

25. $\frac{2(z + 3)}{3} = 5 - z$

26. $\frac{3(w + 2)}{4} = 2w + 3$

27. $-2(2x - 5) = -3x + 7 - x + 3$

30. $0.03(m + 7) = 0.02(5 - m) + 0.03$

31. $-3y = \frac{4(y - 1)}{5}$

32. $-4x = \frac{5(1 - x)}{6}$

35. $\frac{1}{10}(3x - 7) = \frac{3}{10}x + 5$

33. $\frac{5}{3}x - \frac{7}{3} = x$