

1.1 Practice Set

Solve each of the following equations for the indicated variable.

1. $-4x = -36$

2. $-18 = x + 5$

3. $7y + 11 = 5y - 9$

4. $7x - 31 - 3x = -2x + 17 - 2x$

5. $-2(5y - 8) - y = -3(y - 5)$

6. $2.7(3 - x) = 1.2(7 - 2x)$

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

8. $10x - 3(x - 1) = 7(x + 1) + 5$

9. $r = st$ for s

10. $L = PQR$ for R

11. $k = mr - 5mr^3$ for m

12. $G = M(7 + HG)$ for H

13. $Q = 4st^2 - 5sz$ for s

14. $W = 3XY + 3XZ + 3YZ$ for Y

15. $|x| = 3$

16. $|7x| = 5.6$

17. $|2x - 7| = 17$

18. $\left|\frac{y}{2} - 4\right| = 3$

19. $|3x| + 9 = 27$

- 20. $|7m + 10| + 9 = 4$
- 21. $|3x - 2| = 0$
- 22. $|x + 7| = |x - 3|$
- 23. $|12 + 5b| - 8 = -7$
- 24. $|4x - 9| = |3 - 4x|$
- 25. $4 - 3|m - 2| = 1$