

**A. Solve for x.**

1. Solve for x:  $3(x - 5) = 18$

2. Solve for x:  $5x + 3 = 2x - 1$

3. Solve for a:  $2(4a - 5) = 3a - 5$

4. Solve for x:  $\frac{3}{4}x - 1 = \frac{1}{2}$

5. Solve for y:  $2(y - 3) - (y + 10) = -7y + 8$

6. Solve for n:  $\frac{2}{3}n + 8 = 3n + 8$

**B. Solve each Literal Equation for x.**

7.  $y - x = 7$

8.  $3x + 2y = z$

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

10.  $5(x - 10) = a$

11.  $-2(3 + x) = y$

12.  $5x + xy = 3$

$$13. x - ax = -7$$

$$14. z = xy^2 + 2x$$

$$*15. b - x = 4x + ax$$

**C. Solve for the indicated variable.**

$$16. \text{ Solve for } h: \quad V = \pi r^2 h$$

$$17. \text{ Solve for } W: \quad P = 2L + 2W$$

$$18. \text{ Solve for } A: \quad V = \frac{1}{3} Ah$$

$$19. \text{ Solve for } b_2: \quad \frac{1}{2} h(b_1 + b_2)$$

$$20. \text{ Solve for } F: \quad C = \frac{5}{9}(F - 32)$$

$$21. \text{ Solve for } n: \quad m^2 n - 3n = 8$$