

Solving Equations

Emphasis on Linear Equations with Variables on Both Sides

Solve each of the following.

1. $24 - 3m = 5m$

2. $20 + c = 4c - 7$

3. $9 - 3k = 17 - 2k$

4. $5z - 2 = 2(3z - 4)$

5. $3 - 4a = 5(a - 3)$

6. $8y - 6 = \frac{2}{3}(6y + 15)$

7. $78 + 6x = 2(67 - 4x)$

8. $13 + 5x = 2x - 8$

9. $4x - 5 = \frac{1}{5}(5x + 20)$

10. $9x - 5 = \frac{1}{4}(16x + 60)$

$$11. 9z + 12 = 9(z + 3)$$

$$12. 3(2a + 2) = 2(3a + 3)$$

$$13. 8t + 5 = 6t + 1$$

$$14. k + 1 = 3k - 1$$

$$15. 8c + 5 = 4c - 11$$

$$16. 8 + 4m = 9m - 7$$

$$17. 40 + 14j = 2(-4j - 13)$$

$$18. w + 3 = w + 6$$

$$19. 2(3g + 2) = 0.5(12g + 8)$$

$$20. 22x + 70 = 17x - 95$$