

Practice 7-5

Solving Equations With Variables on Both Sides

Solve each equation.

1. $3k + 16 = 5k$

2. $5e = 3e + 36$

3. $n + 4n - 22 = 7n$

4. $2(x - 7) = 3x$

5. $8h - 10h = 3h + 25$

6. $7n + 6n - 5 = 4n + 4$

7. $11(p - 3) = 5(p + 3)$

8. $9(m + 2) = -6(m + 7)$

9. $y + 2(y - 5) = 2y + 2$

10. $-9x + 7 = 3x + 19$

11. $k + 9 = 6(k - 11)$

12. $-6(4 - t) = 12t$

13. $2(x + 7) = 5(x - 7)$

14. $5m + 9 = 3(m - 5) + 7$

15. $5x + 7 = 6x$

16. $k + 12 = 3k$

17. $8m = 5m + 12$

18. $3p - 9 = 4p$

Write an equation for each situation. Solve.

19. The difference when 7 less than a number is subtracted from twice the number is 12. What is the number?

20. Four less than three times a number is three more than two times the number. What is the number?

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