

**2-4****Practice***Form G***Solving Equations With Variables on Both Sides****Solve each equation. Check your answer.**

1.  $3n + 2 = -2n - 8$

2.  $8b - 7 = 7b - 2$

3.  $-12 + 5k = 15 - 4k$

4.  $-q - 11 = 2q + 4$

5.  $4t + 9 = -7t - 13$

6.  $22p + 11 = 4p - 7$

7.  $17 - 9y = -3 + 16y$

8.  $15m + 22 = -7m + 18$

9.  $3x - 7 = 14 + 6x$

**Solve each equation. Check your answer.**

**10.**  $7(h + 3) = 6(h - 3)$

**11.**  $-1(5a + 6) = 2(3a + 8)$

**12.**  $-2(2f - 4) = -4(-f + 2)$

**13.**  $3w - 6 + 2w = -2 + w$

**14.**  $-8x - (3x + 6) = 4 - x$

**15.**  $14 + 3n = 8n - 3(n - 4)$

**Write and solve an equation for each situation. Check your solution.**

16. A movie club charges a one-time membership fee of \$25 which allows members to purchase movies for \$7 each. Another club does not charge a membership fee and sells movies for \$12 each. How many movies must a member purchase for the cost of the two clubs to be equal?