2-4 Solving Equations with Variables on Both Sides ~ Notes

A. Steps

    1. Just working with one side of the equation at a time, simplify (Distribute → Combine Like Terms).

    2. Eliminate the term with the variable on one of the sides of the equal sign (before dealing with constants).

    3. Solve.

B. Examples: Solve.

1. $-5x + 9 = -3x + 1$ **2.** $14 + 7n = 14n + 28$ **3.** $22(g - 1) = 2g + 8$

4. $-d + 12 - 3d = 5d - 6$ **5.** $4(m - 2) = -2(3m + 3)$ **6.** $-(4y - 8) = 2(y + 4)$

7. $5a - 2(4a + 5) = 7a$ **8.** $11w + 2(3w - 1) = 15w$ **9.** $4(3 - 5p) = -5(3p + 3)$