

2-4 Equations with Variable on Both Sides Continued...

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. $-2(3z - 4) = 10 - 6z$

4. $10(x - 3) = 15(x - 2) - 5x$

2. $-2(3z - 4) = 8 - 6z$

5. $4n = 2(n + 1) + 3(n + 1)$

3. $3(1 - 2x) = 4 - 6x$

6. $2x = -2x$

C. Closure: Summarize in your own words, the 3 types of possible solutions when solving equations and what occurs when solving them.