

Equations with Variables on Both Sides

- When there are variable terms on both sides of the equal sign, move the variables to the left and the constants to the right.
- The equation becomes a simple one-step equation.

Steps: (1) Move variables to the left. (Use the inverse operation)★
 (2) Move constants to the right. (Use the inverse operation)★
 (3) Isolate the variable, undo the • with ÷.

Example One:

$$6x + 3 = 2x + 15$$

$\xrightarrow{-2x \quad -3}$
 $4x = 12$
 $\xrightarrow{\div 4}$
 $x = 3$ ← one solution

★ inverse operation

Example Two:

$$2x + 20 = 8x - 4$$

$\xrightarrow{-8x \quad -20}$
 $-6x = -24$
 $\xrightarrow{\div -6}$
 $x = 4$ ← one solution

★ inverse operation

Complex Multi-step Equations with Fractions

Steps: (1) Multiply all terms by the denominator. (2) Distribute.
 (3) Move variables to the left. (Use the inverse operation)
 (4) Move constants to the right. (Use the inverse operation)
 (5) Isolate the variable, undo the • with ÷.

Example One:

$$4(3x + 5) = 4(2x - 10)$$

$\xrightarrow{-8x \quad +5}$
 $3x + 5 = 8x - 40$
 $\xrightarrow{-5x \quad -5}$
 $-5x = -45$
 $\xrightarrow{\div -5}$
 $x = 9$ ← one solution

Example Two:

$$2(5x + 6) = 4(5x) - 4(2)$$

$\xrightarrow{-5x \quad +12}$
 $10x + 12 = 5x - 8$
 $\xrightarrow{-5x \quad -12}$
 $5x = -20$
 $\xrightarrow{\div 5}$
 $x = -4$ ← one solution

Holt Mathematics Lesson 6 9 Answers

Joacim Rocklöv



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