

2.4 Solve Equations with Variables on Both Sides

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Oct 13-7:58 PM Oct 13-7:58 PM

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Steps for Solving Linear Equations

Step 1: Use the distributive property to remove any grouping symbols.

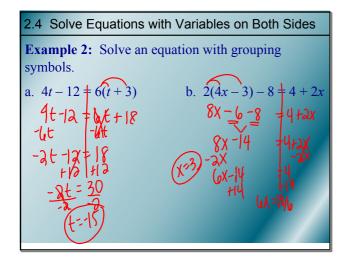
Step 2: Simplify the expression of each side of the equation. (Combine Like Terms)

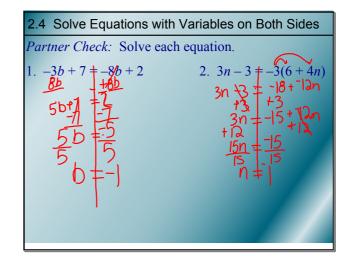
Step 3: Use the properties of equality to collect the variable terms or one side of the equation and the constant terms on the other side of the equation.

Step 4: Use the properties of equality to solve for the variable.

Step 5: Check your solution in the original equation.

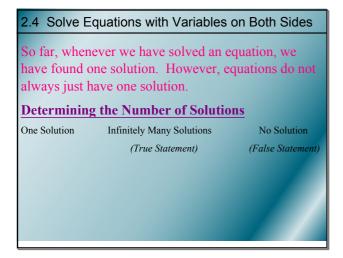
Oct 13-7:58 PM Oct 13-7:58 PM





Oct 13-7:58 PM Oct 13-7:58 PM

1



Example 3: Identify the number of solutions of an equation. Solve the equation if possible.

a. 4x + 5 = 4(x + 5)b. 6x - 3 = 3(2x - 1)AXH3 = 4x + 20

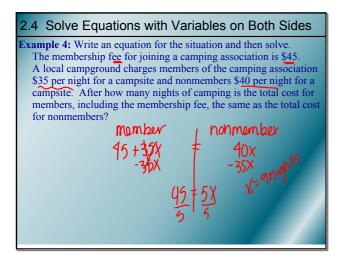
-4X

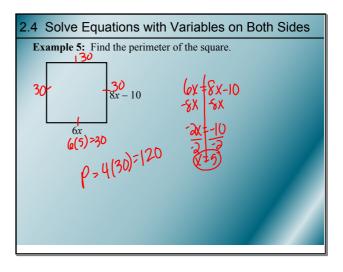
5 = 4x + 20

-4x + 20

-4

Oct 13-7:58 PM Oct 13-7:58 PM





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