Solving a Linear Equation in One Variable



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Preliminaries and Objectives

Preliminaries

- Distributing
- Combining Like Terms

Objectives

Solve a linear equation

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Example 1

$$7 - 3(4 - 2x) = 8x - 11$$

$$7 - 12 + 6x = 8x - 11$$

$$-5 + 6x = 8x - 11$$

$$-6x = -6x$$

$$-5 = 2x - 11$$

$$+11 + 11$$

$$6 = 2x$$

$$3 = x$$

Recap

To solve a linear equation in one variable

- Distribute
- Combine like terms
- Eliminate the variable from one side of the equation
- Eliminate the constant from the other side of the equation
- Divide by the coefficient on the variable