Solving a Linear Equation in One Variable
Preliminaries and Objectives

Preliminaries
- Distributing
- Combining Like Terms

Objectives
- Solve a linear equation
Example 1

\[ 7 - 3(4 - 2x) = 8x - 11 \]
\[ 7 - 12 + 6x = 8x - 11 \]
\[ -5 + 6x = 8x - 11 \]
\[ -6x \quad -11 \]
\[ -5 = 2x - 11 \]
\[ +11 \quad +11 \]
\[ 6 = 2x \]
\[ 3 = x \]
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