

### **Solve Linear Equations**

#### **Learning Objectives**

- Solve equations in one variable algebraically, variable just one side
- Solve equations in one variable algebraically, variable on both sides

Solve equations in one variable algebraically, variable just one side

1. Solve for the variable in 3(x-4) + x = 8.

Solve equations in one variable algebraically, variable on both sides

2. Solve for the variable in 2[10 + 3(x - 1)] + 9 = 4(x - 7) + 21.

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3. Solve for the variable in  $\frac{1}{2}[4-(x+7)]+\frac{3}{4}=\frac{x-5}{6}-2$ .

- Simplify expressions first, starting with the innermost parentheses.
- It can be helpful to clear fractions by multiplying both sides of the equation by the LCD.
- Combine like terms on each side before collecting variables on one side and constants on the other.

# ⇒ KNEWTON I alfa

#### **ANSWER KEY**

- 1. x = 5
- 2. x = -15
- 3.  $x = \frac{25}{8}$