

Simplifying and Solving Equations

Solve an equation by combining like terms.

Solve $8x - 3x - 10 = 20$.

$$8x - 3x - 10 = 20$$

$$5x - 10 = 20$$

$$5x - 10 + 10 = 20 + 10$$

$$5x = 30$$

$$\frac{5x}{5} = \frac{30}{5}$$

$$x = 6$$

Write original equation.

Combine like terms.

Add 10 to each side.

Simplify.

Divide each side by 5.

Simplify.