

Review Exercise Set 4

Exercise 1: Simplify.

$$7x + 5x - 3x = ?$$

Exercise 2: Simplify.

$$x^2 + 3y + (-3x^2) - 5x + 4y = ?$$

Exercise 3: Simplify.

$$-5b(-7) = ?$$

Exercise 4: Simplify.

$$-13c\left(\frac{1}{13}\right) = ?$$

Exercise 5: Simplify.

$$-7(6x - 5y) = ?$$

Exercise 6: Simplify.

$$2x - 4[3x - (5 - x)] - 13 = ?$$

Review Exercise Set 4 Answer Key

Exercise 1: Simplify.

$$\begin{aligned} &7x + 5x - 3x \\ &= 12x - 3x \\ &= \mathbf{9x} \end{aligned}$$

Exercise 2: Simplify.

$$\begin{aligned} &x^2 + 3y + (-3x^2) - 5x + 4y \\ &= (x^2 - 3x^2) + (3y + 4y) - 5x \\ &= \mathbf{-2x^2 + 7y - 5x} \end{aligned}$$

Exercise 3: Simplify.

$$\begin{aligned} &-5b(-7) \\ &= \mathbf{35b} \end{aligned}$$

Exercise 4: Simplify.

$$\begin{aligned} &-13c \left(\frac{1}{13} \right) \\ &= \frac{-13c}{13} \\ &= \mathbf{-c} \end{aligned}$$

Exercise 5: Simplify.

$$\begin{aligned} &-7(6x - 5y) \\ &= (-7)(6x) + (-7)(-5y) \\ &= \mathbf{-42x + 35y} \end{aligned}$$

Exercise 6: Simplify.

$$\begin{aligned} &2x - 4[3x - (5 - x)] - 13 \\ &= 2x - 4[3x - 5 + x] - 13 \\ &= 2x - 4[4x - 5] - 13 \\ &= 2x - 16x + 20 - 13 \\ &= \mathbf{-14x + 7} \end{aligned}$$