

## Simplifying Expressions (C)

Simplify each expression.

1.  $z + 1 + 1 + 3 + z - xz$

6.  $1 - 5u + a + u - 1 - a^2$

2.  $2ax - 4ax + 3ax + ax + 3x + 4$

7.  $4 + 6b - b^2 + 3b + 1 + 2$

3.  $-6vz + 3v - 4vz + vz - 2 + vz$

8.  $1 - 4x^2 + 4y - x + 5 + 4x$

4.  $-5 - 3u + 1 + 2y + 5 + 5uy$

9.  $2by + 1 + b + 4y + b + by$

5.  $6v + 1 - 3 - 1 + 1 + 6v$

10.  $-u + 1 + 5b^2 + b - 3b - 5b^2$

## Simplifying Expressions (C) Answers

Simplify each expression.

$$\begin{aligned} 1. \quad & z + 1 + 1 + 3 + z - xz \\ & = -xz + 2z + 5 \end{aligned}$$

$$\begin{aligned} 6. \quad & 1 - 5u + a + u - 1 - a^2 \\ & = -a^2 - 4u + a \end{aligned}$$

$$\begin{aligned} 2. \quad & 2ax - 4ax + 3ax + ax + 3x + 4 \\ & = 2ax + 3x + 4 \end{aligned}$$

$$\begin{aligned} 7. \quad & 4 + 6b - b^2 + 3b + 1 + 2 \\ & = -b^2 + 9b + 7 \end{aligned}$$

$$\begin{aligned} 3. \quad & -6vz + 3v - 4vz + vz - 2 + vz \\ & = -8vz + 3v - 2 \end{aligned}$$

$$\begin{aligned} 8. \quad & 1 - 4x^2 + 4y - x + 5 + 4x \\ & = -4x^2 + 4y + 3x + 6 \end{aligned}$$

$$\begin{aligned} 4. \quad & -5 - 3u + 1 + 2y + 5 + 5uy \\ & = 5uy - 3u + 2y + 1 \end{aligned}$$

$$\begin{aligned} 9. \quad & 2by + 1 + b + 4y + b + by \\ & = 3by + 2b + 4y + 1 \end{aligned}$$

$$\begin{aligned} 5. \quad & 6v + 1 - 3 - 1 + 1 + 6v \\ & = 12v - 2 \end{aligned}$$

$$\begin{aligned} 10. \quad & -u + 1 + 5b^2 + b - 3b - 5b^2 \\ & = -u - 2b + 1 \end{aligned}$$