

Simplifying Expressions (B)

Simplify each expression.

1. $5a - a + 1 + 2 - 1 - c$

6. $-u + u^2 + uy + y^2 + y + y^2$

2. $1 + v^2 + v^2 + 3v^2 + v^2 + v$

7. $6 + 4ux + 2u - u^2 - 1 + 4$

3. $x + 1 + 2vx - vx + x + x$

8. $5cy + c - 3 + cy - 6cy + 3$

4. $-v - 5v + 1 + 2z - vz + 1$

9. $1 + 2 + a^2 + ay + 5y - y$

5. $bv + 1 + 6b + 5 + 6 + 6$

10. $3 - u + 1 - 4v + uv - u$

Simplifying Expressions (B) Answers

Simplify each expression.

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

$$\begin{aligned} 6. \quad & -u + u^2 + uy + y^2 + y + y^2 \\ & = u^2 + uy + 2y^2 - u + y \end{aligned}$$

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

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

$$\begin{aligned} 3. \quad & x + 1 + 2vx - vx + x + x \\ & = vx + 3x + 1 \end{aligned}$$

$$\begin{aligned} 8. \quad & 5cy + c - 3 + cy - 6cy + 3 \\ & = c \end{aligned}$$

$$\begin{aligned} 4. \quad & -v - 5v + 1 + 2z - vz + 1 \\ & = -vz - 6v + 2z + 2 \end{aligned}$$

$$\begin{aligned} 9. \quad & 1 + 2 + a^2 + ay + 5y - y \\ & = a^2 + ay + 4y + 3 \end{aligned}$$

$$\begin{aligned} 5. \quad & bv + 1 + 6b + 5 + 6 + 6 \\ & = bv + 6b + 18 \end{aligned}$$

$$\begin{aligned} 10. \quad & 3 - u + 1 - 4v + uv - u \\ & = uv - 2u - 4v + 4 \end{aligned}$$