

Simplifying Expressions (D)

Simplify each expression.

1. $x^2 + 4 + x - 2 + 4 + 1$

6. $b + 1 + z^2 + 6 + 6 - 4$

2. $-6b - 6y + 4b^2 + 6 + b^2 + 5y$

7. $2u + 4uy - 1 + y - 1 - 6$

3. $-4u + 1 + u^2 + 1 + 3 + 5a^2$

8. $-5 - uz - 3u^2 - 4u + u - 4z$

4. $-az + 5 + 6a^2 - 1 - a^2 - 2z^2$

9. $-1 + 1 + v + 4 + bv + 6$

5. $-4z^2 + 2cz - c - c - cz + c$

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

Simplifying Expressions (D) Answers

Simplify each expression.

$$\begin{aligned} 1. \quad & x^2 + 4 + x - 2 + 4 + 1 \\ & = x^2 + x + 7 \end{aligned}$$

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

$$\begin{aligned} 2. \quad & -6b - 6y + 4b^2 + 6 + b^2 + 5y \\ & = 5b^2 - 6b - y + 6 \end{aligned}$$

$$\begin{aligned} 7. \quad & 2u + 4uy - 1 + y - 1 - 6 \\ & = 4uy + 2u + y - 8 \end{aligned}$$

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

$$\begin{aligned} 8. \quad & -5 - uz - 3u^2 - 4u + u - 4z \\ & = -uz - 3u^2 - 3u - 4z - 5 \end{aligned}$$

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

$$\begin{aligned} 9. \quad & -1 + 1 + v + 4 + bv + 6 \\ & = bv + v + 10 \end{aligned}$$

$$\begin{aligned} 5. \quad & -4z^2 + 2cz - c - c - cz + c \\ & = -4z^2 + cz - c \end{aligned}$$

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