

Simplifying Expressions (B)

Simplify each expression.

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

6. $6 + 1 - 1 + b$

2. $1 + y - 3 - cy$

7. $2u + uy + uy + u$

3. $-1 - 3av + 6v^2 - 4v^2$

8. $-5z - 1 + cz + 6$

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

9. $-2 + 2x - 1 + 1$

5. $6 + 3b^2 - b + 5$

10. $1 + c^2 - b^2 + 3$

Simplifying Expressions (B) Answers

Simplify each expression.

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

$$\begin{aligned} 6. \quad & 6 + 1 - 1 + b \\ & = b + 6 \end{aligned}$$

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

$$\begin{aligned} 7. \quad & 2u + uy + uy + u \\ & = 2uy + 3u \end{aligned}$$

$$\begin{aligned} 3. \quad & -1 - 3av + 6v^2 - 4v^2 \\ & = -3av + 2v^2 - 1 \end{aligned}$$

$$\begin{aligned} 8. \quad & -5z - 1 + cz + 6 \\ & = cz - 5z + 5 \end{aligned}$$

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

$$\begin{aligned} 9. \quad & -2 + 2x - 1 + 1 \\ & = 2x - 2 \end{aligned}$$

$$\begin{aligned} 5. \quad & 6 + 3b^2 - b + 5 \\ & = 3b^2 - b + 11 \end{aligned}$$

$$\begin{aligned} 10. \quad & 1 + c^2 - b^2 + 3 \\ & = c^2 - b^2 + 4 \end{aligned}$$