

Simplifying Expressions (D)

Simplify each expression.

1. $1 + b + b^2 + 3$

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

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

7. $v - 4v^2 - 2v - v^2$

3. $5z + 5z + z^2 + 3z^2$

8. $v^2 + 2v^2 + 5 + 1$

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

9. $6b^2 - b^2 - 1 + 2$

5. $2y - y^2 + y + y^2$

10. $5v^2 + 4v + 3v + v^2$

Simplifying Expressions (D) Answers

Simplify each expression.

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

$$\begin{aligned} 6. \quad & -6 + 6b^2 + b - 2 \\ & = 6b^2 + b - 8 \end{aligned}$$

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

$$\begin{aligned} 7. \quad & v - 4v^2 - 2v - v^2 \\ & = -5v^2 - v \end{aligned}$$

$$\begin{aligned} 3. \quad & 5z + 5z + z^2 + 3z^2 \\ & = 4z^2 + 10z \end{aligned}$$

$$\begin{aligned} 8. \quad & v^2 + 2v^2 + 5 + 1 \\ & = 3v^2 + 6 \end{aligned}$$

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

$$\begin{aligned} 9. \quad & 6b^2 - b^2 - 1 + 2 \\ & = 5b^2 + 1 \end{aligned}$$

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

$$\begin{aligned} 10. \quad & 5v^2 + 4v + 3v + v^2 \\ & = 6v^2 + 7v \end{aligned}$$