

Simplifying Expressions

Simplify each expression.

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

6. $5y^2 - 2y - 3y^2 + y^2 - 1 + 6v^2$

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

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

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

8. $v + 4v - y + 2 + 6vy + y$

4. $-6z^2 - z^2 + 3z + 1 + z^2 - z$

9. $-6 + 2y - y + 2 + 2y^2 + 4y$

5. $5 - x^2 - 4x^2 + 1 + x + 6x^2$

10. $v + 1 + 5y + y + 2y^2 + 6$

Simplifying Expressions Answers

Simplify each expression.

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

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

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

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

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

$$\begin{aligned} 8. \quad & v + 4v - y + 2 + 6vy + y \\ & = 6vy + 5v + 2 \end{aligned}$$

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

$$\begin{aligned} 9. \quad & -6 + 2y - y + 2 + 2y^2 + 4y \\ & = 2y^2 + 5y - 4 \end{aligned}$$

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

$$\begin{aligned} 10. \quad & v + 1 + 5y + y + 2y^2 + 6 \\ & = 2y^2 + v + 6y + 7 \end{aligned}$$