

Simplifying Expressions (G)

Simplify each expression.

1. $3v - 3 - v^2 + 6 + a + 2v^2$

6. $2 - x^2 + x - x + x + x$

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

7. $-c^2 - c - 3 - 5 + 2c^2 - 1$

3. $c - c^2 - c + c + bc - b$

8. $1 + 4 + y + c + c + 1$

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

9. $ax + 1 - x + 6ax + ax - x$

5. $-c^2 + c^2 + 3a + ac - ac + 1$

10. $2 + 1 - 1 - 4 - a + a^2$

Simplifying Expressions (G) Answers

Simplify each expression.

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

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

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

$$\begin{aligned} 7. \quad & -c^2 - c - 3 - 5 + 2c^2 - 1 \\ & = c^2 - c - 9 \end{aligned}$$

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

$$\begin{aligned} 8. \quad & 1 + 4 + y + c + c + 1 \\ & = y + 2c + 6 \end{aligned}$$

$$\begin{aligned} 4. \quad & a^2 - 3a^2 + 1 + 1 + 6 + 3a^2 \\ & = a^2 + 8 \end{aligned}$$

$$\begin{aligned} 9. \quad & ax + 1 - x + 6ax + ax - x \\ & = 8ax - 2x + 1 \end{aligned}$$

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

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