

Simplifying Expressions (J)

Simplify each expression.

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

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

2. $3x + 1 + bx - bx + 1$

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

3. $6vz - z^2 + vz + 2v^2 + v$

8. $6a^2 - 6u^2 + 1 + u^2 + 4u$

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

9. $2bv + 4v^2 + 6 - 2v + bv$

5. $-1 + 1 - 6y + 2yz + 4z$

10. $1 - v - 6x + v + 1$

Simplifying Expressions (J) Answers

Simplify each expression.

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

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

$$\begin{aligned} 2. & 3x + 1 + bx - bx + 1 \\ & = 3x + 2 \end{aligned}$$

$$\begin{aligned} 7. & y + 4 - y + 4y^2 + 6y^2 \\ & = 10y^2 + 4 \end{aligned}$$

$$\begin{aligned} 3. & 6vz - z^2 + vz + 2v^2 + v \\ & = 7vz - z^2 + 2v^2 + v \end{aligned}$$

$$\begin{aligned} 8. & 6a^2 - 6u^2 + 1 + u^2 + 4u \\ & = 6a^2 - 5u^2 + 4u + 1 \end{aligned}$$

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

$$\begin{aligned} 9. & 2bv + 4v^2 + 6 - 2v + bv \\ & = 3bv + 4v^2 - 2v + 6 \end{aligned}$$

$$\begin{aligned} 5. & -1 + 1 - 6y + 2yz + 4z \\ & = 2yz - 6y + 4z \end{aligned}$$

$$\begin{aligned} 10. & 1 - v - 6x + v + 1 \\ & = -6x + 2 \end{aligned}$$