

## Simplifying Expressions (J)

Simplify each expression.

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

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

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

7.  $4b^2 + 1 - b - 1$

3.  $2v^2 + 1 + 4v + v$

8.  $x - x^2 + x^2 + 1$

4.  $4z^2 + z^2 + 6z^2 + 5$

9.  $-z^2 + z^2 - 5z + z$

5.  $c^2 + c - c - c$

10.  $3 + 5z - z - 4z^2$

## Simplifying Expressions (J) Answers

Simplify each expression.

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

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

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

$$\begin{aligned} 7. & 4b^2 + 1 - b - 1 \\ & = 4b^2 - b \end{aligned}$$

$$\begin{aligned} 3. & 2v^2 + 1 + 4v + v \\ & = 2v^2 + 5v + 1 \end{aligned}$$

$$\begin{aligned} 8. & x - x^2 + x^2 + 1 \\ & = x + 1 \end{aligned}$$

$$\begin{aligned} 4. & 4z^2 + z^2 + 6z^2 + 5 \\ & = 11z^2 + 5 \end{aligned}$$

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

$$\begin{aligned} 5. & c^2 + c - c - c \\ & = c^2 - c \end{aligned}$$

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