

Simplifying Expressions (J)

Simplify each expression.

1. $z - 5z + z$

6. $3 \cdot z^2 \cdot (-z^2)$

2. $10 - b \cdot 9b$

7. $-1 - y + 5$

3. $8a^2 \cdot \left(-\frac{a^3}{a^2}\right)$

8. $6c^2 - 9c - c$

4. $\frac{9x}{3} + 3x^2$

9. $1 + 7z^2 + z^2$

5. $b^2 \cdot \frac{49b^4}{7b^2}$

10. $7v^2 + v \cdot v^2$

Simplifying Expressions (J) Answers

Simplify each expression.

$$\begin{aligned} 1. z - 5z + z \\ = -3z \end{aligned}$$

$$\begin{aligned} 6. 3 \cdot z^2 \cdot (-z^2) \\ = -3z^4 \end{aligned}$$

$$\begin{aligned} 2. 10 - b \cdot 9b \\ = -9b^2 + 10 \end{aligned}$$

$$\begin{aligned} 7. -1 - y + 5 \\ = -y + 4 \end{aligned}$$

$$\begin{aligned} 3. 8a^2 \cdot \left(-\frac{a^3}{a^2}\right) \\ = -8a^3 \end{aligned}$$

$$\begin{aligned} 8. 6c^2 - 9c - c \\ = 6c^2 - 10c \end{aligned}$$

$$\begin{aligned} 4. \frac{9x}{3} + 3x^2 \\ = 3x^2 + 3x \end{aligned}$$

$$\begin{aligned} 9. 1 + 7z^2 + z^2 \\ = 8z^2 + 1 \end{aligned}$$

$$\begin{aligned} 5. b^2 \cdot \frac{49b^4}{7b^2} \\ = 7b^4 \end{aligned}$$

$$\begin{aligned} 10. 7v^2 + v \cdot v^2 \\ = v^3 + 7v^2 \end{aligned}$$