

Simplifying Expressions (A)

Simplify each expression.

1. $8c^2 \cdot \frac{720c^4}{9c^2 \cdot (-8c)}$

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

2. $5b^2 - b^2 + 8b^2 - b$

7. $-1 \cdot \frac{7y^4}{7y^2} \cdot (-y)$

3. $\frac{9b^4}{-b^2 \cdot (-b^2)} \cdot b$

8. $-c + 1 - c^2 + 4$

4. $7z^2 + z^2 + z - z$

9. $\frac{y}{y} - \frac{20y^2}{-4y}$

5. $a^2 + a + a + 9a^2$

10. $c \cdot \frac{70c^4}{10c^2} - c$

Simplifying Expressions (A) Answers

Simplify each expression.

$$\begin{aligned} 1. \quad & 8c^2 \cdot \frac{720c^4}{9c^2 \cdot (-8c)} \\ & = -80c^3 \end{aligned}$$

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

$$\begin{aligned} 2. \quad & 5b^2 - b^2 + 8b^2 - b \\ & = 12b^2 - b \end{aligned}$$

$$\begin{aligned} 7. \quad & -1 \cdot \frac{7y^4}{7y^2} \cdot (-y) \\ & = y^3 \end{aligned}$$

$$\begin{aligned} 3. \quad & \frac{9b^4}{-b^2 \cdot (-b^2)} \cdot b \\ & = 9b \end{aligned}$$

$$\begin{aligned} 8. \quad & -c + 1 - c^2 + 4 \\ & = -c^2 - c + 5 \end{aligned}$$

$$\begin{aligned} 4. \quad & 7z^2 + z^2 + z - z \\ & = 8z^2 \end{aligned}$$

$$\begin{aligned} 9. \quad & \frac{y}{y} - \frac{20y^2}{-4y} \\ & = 5y + 1 \end{aligned}$$

$$\begin{aligned} 5. \quad & a^2 + a + a + 9a^2 \\ & = 10a^2 + 2a \end{aligned}$$

$$\begin{aligned} 10. \quad & c \cdot \frac{70c^4}{10c^2} - c \\ & = 7c^3 - c \end{aligned}$$