

Simplifying Expressions (B)

Simplify each expression.

1. $-\frac{8z^3}{z^2} + \frac{z^4}{z^2}$

6. $b^2 + 10b^2 - b^2 + 6b^2$

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

7. $-10z \cdot \left(-\frac{8z^2}{8z^2}\right) - 6z^2$

3. $v - \frac{8v^4}{v^2} + v$

8. $2 - y - y + y$

4. $-\frac{6a^2}{a} + \frac{a^3}{a^2}$

9. $-c + c - c^2 + 7c^2$

5. $1 + c^2 \cdot (-c) - 1$

10. $-\frac{3v}{-3} \cdot v - v$

Simplifying Expressions (B) Answers

Simplify each expression.

$$\begin{aligned} 1. & -\frac{8z^3}{z^2} + \frac{z^4}{z^2} \\ & = z^2 - 8z \end{aligned}$$

$$\begin{aligned} 6. & b^2 + 10b^2 - b^2 + 6b^2 \\ & = 16b^2 \end{aligned}$$

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

$$\begin{aligned} 7. & -10z \cdot \left(-\frac{8z^2}{8z^2}\right) - 6z^2 \\ & = -6z^2 + 10z \end{aligned}$$

$$\begin{aligned} 3. & v - \frac{8v^4}{v^2} + v \\ & = -8v^2 + 2v \end{aligned}$$

$$\begin{aligned} 8. & 2 - y - y + y \\ & = -y + 2 \end{aligned}$$

$$\begin{aligned} 4. & -\frac{6a^2}{a} + \frac{a^3}{a^2} \\ & = -5a \end{aligned}$$

$$\begin{aligned} 9. & -c + c - c^2 + 7c^2 \\ & = 6c^2 \end{aligned}$$

$$\begin{aligned} 5. & 1 + c^2 \cdot (-c) - 1 \\ & = -c^3 \end{aligned}$$

$$\begin{aligned} 10. & -\frac{3v}{-3} \cdot v - v \\ & = v^2 - v \end{aligned}$$