

Simplifying Expressions

Simplify each expression.

1. $-z \cdot (-4z^2) \cdot 6z^2 \cdot z^2$

6. $-3v \cdot 4v^2 \cdot (-1) \cdot 7v$

2. $8 \cdot 6 \cdot a^2 \cdot (-1)$

7. $\frac{2y^3}{-y^2} \cdot (-y^2) \cdot (-y^2)$

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

8. $x \cdot x \cdot (-x^2) \cdot 5x$

4. $-\frac{2c^2}{2c} \cdot (-5c) \cdot c^2$

9. $\frac{a^4}{a^2 \cdot (-1)} \cdot (-9a)$

5. $z^2 \cdot z \cdot (-1) \cdot (-z^2)$

10. $5z \cdot (-5) \cdot z \cdot z^2$

Simplifying Expressions Answers

Simplify each expression.

$$\begin{aligned} 1. & -z \cdot (-4z^2) \cdot 6z^2 \cdot z^2 \\ & = 24z^7 \end{aligned}$$

$$\begin{aligned} 6. & -3v \cdot 4v^2 \cdot (-1) \cdot 7v \\ & = 84v^4 \end{aligned}$$

$$\begin{aligned} 2. & 8 \cdot 6 \cdot a^2 \cdot (-1) \\ & = -48a^2 \end{aligned}$$

$$\begin{aligned} 7. & \frac{2y^3}{-y^2} \cdot (-y^2) \cdot (-y^2) \\ & = -2y^5 \end{aligned}$$

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

$$\begin{aligned} 8. & x \cdot x \cdot (-x^2) \cdot 5x \\ & = -5x^5 \end{aligned}$$

$$\begin{aligned} 4. & -\frac{2c^2}{2c} \cdot (-5c) \cdot c^2 \\ & = 5c^4 \end{aligned}$$

$$\begin{aligned} 9. & \frac{a^4}{a^2 \cdot (-1)} \cdot (-9a) \\ & = 9a^3 \end{aligned}$$

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

$$\begin{aligned} 10. & 5z \cdot (-5) \cdot z \cdot z^2 \\ & = -25z^4 \end{aligned}$$