

Simplifying Expressions (J)

Simplify each expression.

1. $-\frac{3b^3}{-3b} \cdot (-4b^2) \cdot 10$

6. $b^2 \cdot (-8) \cdot (-b) \cdot (-b)$

2. $u^2 \cdot \frac{u^3}{u^2} \cdot u^2$

7. $v^2 \cdot 9 \cdot v^2 \cdot (-2v^2)$

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

8. $b^2 \cdot \frac{b^2}{b} \cdot (-8)$

4. $-\frac{20x^7}{-x^2 \cdot 4x \cdot 5x^2}$

9. $-\frac{2z^4}{-z^2} \cdot 8z^2 \cdot z$

5. $-\frac{2y^5}{y^2 \cdot y} \cdot (-8y^2)$

10. $-1 \cdot c \cdot 5 \cdot 3$

Simplifying Expressions (J) Answers

Simplify each expression.

$$\begin{aligned} 1. & -\frac{3b^3}{-3b} \cdot (-4b^2) \cdot 10 \\ & = -40b^4 \end{aligned}$$

$$\begin{aligned} 6. & b^2 \cdot (-8) \cdot (-b) \cdot (-b) \\ & = -8b^4 \end{aligned}$$

$$\begin{aligned} 2. & u^2 \cdot \frac{u^3}{u^2} \cdot u^2 \\ & = u^5 \end{aligned}$$

$$\begin{aligned} 7. & v^2 \cdot 9 \cdot v^2 \cdot (-2v^2) \\ & = -18v^6 \end{aligned}$$

$$\begin{aligned} 3. & v \cdot v \cdot \left(-\frac{8v^2}{8}\right) \\ & = -v^4 \end{aligned}$$

$$\begin{aligned} 8. & b^2 \cdot \frac{b^2}{b} \cdot (-8) \\ & = -8b^3 \end{aligned}$$

$$\begin{aligned} 4. & -\frac{20x^7}{-x^2 \cdot 4x \cdot 5x^2} \\ & = x^2 \end{aligned}$$

$$\begin{aligned} 9. & -\frac{2z^4}{-z^2} \cdot 8z^2 \cdot z \\ & = 16z^5 \end{aligned}$$

$$\begin{aligned} 5. & -\frac{2y^5}{y^2 \cdot y} \cdot (-8y^2) \\ & = 16y^4 \end{aligned}$$

$$\begin{aligned} 10. & -1 \cdot c \cdot 5 \cdot 3 \\ & = -15c \end{aligned}$$