

Simplifying Expressions (G)

Simplify each expression.

1. $-\frac{a^3}{a^2} \cdot 6a^2 \cdot (-10)$

6. $8 \cdot (-u) \cdot \frac{u^4}{u^2}$

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

7. $-10u \cdot (-4) \cdot u^2 \cdot (-u^2)$

3. $u \cdot \frac{u}{u} \cdot (-1)$

8. $4 \cdot (-10) \cdot (-z^2) \cdot 8z^2$

4. $7c^2 \cdot 4c \cdot 9c \cdot 2$

9. $\frac{5x^6}{-x \cdot (-5x) \cdot x^2}$

5. $-6 \cdot (-c^2) \cdot c \cdot c$

10. $\frac{24v^3}{v \cdot 8v} \cdot v$

Simplifying Expressions (G) Answers

Simplify each expression.

$$\begin{aligned} 1. & -\frac{a^3}{a^2} \cdot 6a^2 \cdot (-10) \\ & = 60a^3 \end{aligned}$$

$$\begin{aligned} 6. & 8 \cdot (-u) \cdot \frac{u^4}{u^2} \\ & = -8u^3 \end{aligned}$$

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

$$\begin{aligned} 7. & -10u \cdot (-4) \cdot u^2 \cdot (-u^2) \\ & = -40u^5 \end{aligned}$$

$$\begin{aligned} 3. & u \cdot \frac{u}{u} \cdot (-1) \\ & = -u \end{aligned}$$

$$\begin{aligned} 8. & 4 \cdot (-10) \cdot (-z^2) \cdot 8z^2 \\ & = 320z^4 \end{aligned}$$

$$\begin{aligned} 4. & 7c^2 \cdot 4c \cdot 9c \cdot 2 \\ & = 504c^4 \end{aligned}$$

$$\begin{aligned} 9. & \frac{5x^6}{-x \cdot (-5x) \cdot x^2} \\ & = x^2 \end{aligned}$$

$$\begin{aligned} 5. & -6 \cdot (-c^2) \cdot c \cdot c \\ & = 6c^4 \end{aligned}$$

$$\begin{aligned} 10. & \frac{24v^3}{v \cdot 8v} \cdot v \\ & = 3v^2 \end{aligned}$$