

Simplifying Expressions (B)

Simplify each expression.

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

$$6. -z^2 \cdot 6z \cdot 4 \cdot z^2$$

$$2. -1 \cdot 3y^2 \cdot y^2 \cdot (-7y^2)$$

$$7. \frac{8u^2}{8u} \cdot u \cdot u^2$$

$$3. -\frac{24c^4}{-6c^2} \cdot (-5) \cdot (-4c^2)$$

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

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

$$9. -v^2 \cdot (-8v^2) \cdot 8v^2 \cdot (-9v)$$

$$5. 7z \cdot 10z \cdot 5z \cdot z$$

$$10. 4 \cdot \frac{v^4}{v \cdot (-v^2)}$$

Simplifying Expressions (B) Answers

Simplify each expression.

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

$$\begin{aligned} 6. & -z^2 \cdot 6z \cdot 4 \cdot z^2 \\ & = -24z^5 \end{aligned}$$

$$\begin{aligned} 2. & -1 \cdot 3y^2 \cdot y^2 \cdot (-7y^2) \\ & = 21y^6 \end{aligned}$$

$$\begin{aligned} 7. & \frac{8u^2}{8u} \cdot u \cdot u^2 \\ & = u^4 \end{aligned}$$

$$\begin{aligned} 3. & -\frac{24c^4}{-6c^2} \cdot (-5) \cdot (-4c^2) \\ & = 80c^4 \end{aligned}$$

$$\begin{aligned} 8. & -8b \cdot b^2 \cdot (-b^2) \cdot 8b^2 \\ & = 64b^7 \end{aligned}$$

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

$$\begin{aligned} 9. & -v^2 \cdot (-8v^2) \cdot 8v^2 \cdot (-9v) \\ & = -576v^7 \end{aligned}$$

$$\begin{aligned} 5. & 7z \cdot 10z \cdot 5z \cdot z \\ & = 350z^4 \end{aligned}$$

$$\begin{aligned} 10. & 4 \cdot \frac{v^4}{v \cdot (-v^2)} \\ & = -4v \end{aligned}$$