

Simplifying Expressions (H)

Simplify each expression.

$$1. -\frac{z^2}{-z} \cdot z^2 \cdot (-u) \cdot 2z$$

$$6. 8cz \cdot (-1) \cdot 10 \cdot 7c^2 \cdot (-6)$$

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

$$7. \frac{uz}{-1} \cdot u \cdot (-2) \cdot (-1)$$

$$3. -b^2 \cdot 9bc \cdot 8 \cdot (-10b^2) \cdot b$$

$$8. \frac{24c^3}{6c^2} \cdot 5c^2 \cdot 6ac \cdot 4$$

$$4. -8u^2 \cdot cu \cdot c \cdot 7c \cdot c$$

$$9. 9c \cdot 5 \cdot \frac{30c^2v^2}{6v \cdot (-5cv)}$$

$$5. -y \cdot (-6b^2) \cdot \left(-\frac{27y^2}{3y^2}\right) \cdot 9by$$

$$10. -y^2 \cdot (-y^2) \cdot 7xy \cdot y \cdot (-x^2)$$

Simplifying Expressions (H) Answers

Simplify each expression.

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

$$\begin{aligned} 6. & 8cz \cdot (-1) \cdot 10 \cdot 7c^2 \cdot (-6) \\ & = 3360c^3z \end{aligned}$$

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

$$\begin{aligned} 7. & \frac{uz}{-1} \cdot u \cdot (-2) \cdot (-1) \\ & = -2u^2z \end{aligned}$$

$$\begin{aligned} 3. & -b^2 \cdot 9bc \cdot 8 \cdot (-10b^2) \cdot b \\ & = 720b^6c \end{aligned}$$

$$\begin{aligned} 8. & \frac{24c^3}{6c^2} \cdot 5c^2 \cdot 6ac \cdot 4 \\ & = 480ac^4 \end{aligned}$$

$$\begin{aligned} 4. & -8u^2 \cdot cu \cdot c \cdot 7c \cdot c \\ & = -56c^4u^3 \end{aligned}$$

$$\begin{aligned} 9. & 9c \cdot 5 \cdot \frac{30c^2v^2}{6v \cdot (-5cv)} \\ & = -45c^2 \end{aligned}$$

$$\begin{aligned} 5. & -y \cdot (-6b^2) \cdot \left(-\frac{27y^2}{3y^2}\right) \cdot 9by \\ & = -486b^3y^2 \end{aligned}$$

$$\begin{aligned} 10. & -y^2 \cdot (-y^2) \cdot 7xy \cdot y \cdot (-x^2) \\ & = -7x^3y^6 \end{aligned}$$