

Simplifying Expressions (B)

Simplify each expression.

$$1. 9 \cdot v^2 \cdot 5c \cdot \left(-\frac{4cv^2}{-cv} \right)$$

$$6. -\frac{8x^2}{8x^2} \cdot c^2 \cdot c \cdot 5c$$

$$2. z \cdot (-6) \cdot \left(-\frac{12az}{-2} \right) \cdot 3$$

$$7. \frac{24y^3}{8 \cdot (-3y^2)} \cdot (-y) \cdot 7$$

$$3. 10z^2 \cdot 8x \cdot z^2 \cdot x^2 \cdot (-3z)$$

$$8. 9a^2 \cdot \frac{56a^2c^3}{-c^2 \cdot (-8ac)} \cdot a$$

$$4. -x^2 \cdot x^2 \cdot (-9x^2) \cdot bx \cdot 9b^2$$

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

$$5. -\frac{10c^2}{-c^2} \cdot 8c \cdot (-1) \cdot v^2$$

$$10. a \cdot \left(-\frac{54a^5v^2}{9av \cdot (-3a) \cdot a^2} \right)$$

Simplifying Expressions (B) Answers

Simplify each expression.

$$\begin{aligned} 1. & 9 \cdot v^2 \cdot 5c \cdot \left(-\frac{4cv^2}{-cv} \right) \\ & = 180cv^3 \end{aligned}$$

$$\begin{aligned} 6. & -\frac{8x^2}{8x^2} \cdot c^2 \cdot c \cdot 5c \\ & = -5c^4 \end{aligned}$$

$$\begin{aligned} 2. & z \cdot (-6) \cdot \left(-\frac{12az}{-2} \right) \cdot 3 \\ & = -108az^2 \end{aligned}$$

$$\begin{aligned} 7. & \frac{24y^3}{8 \cdot (-3y^2)} \cdot (-y) \cdot 7 \\ & = 7y^2 \end{aligned}$$

$$\begin{aligned} 3. & 10z^2 \cdot 8x \cdot z^2 \cdot x^2 \cdot (-3z) \\ & = -240x^3z^5 \end{aligned}$$

$$\begin{aligned} 8. & 9a^2 \cdot \frac{56a^2c^3}{-c^2 \cdot (-8ac)} \cdot a \\ & = 63a^4 \end{aligned}$$

$$\begin{aligned} 4. & -x^2 \cdot x^2 \cdot (-9x^2) \cdot bx \cdot 9b^2 \\ & = 81b^3x^7 \end{aligned}$$

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

$$\begin{aligned} 5. & -\frac{10c^2}{-c^2} \cdot 8c \cdot (-1) \cdot v^2 \\ & = -80cv^2 \end{aligned}$$

$$\begin{aligned} 10. & a \cdot \left(-\frac{54a^5v^2}{9av \cdot (-3a) \cdot a^2} \right) \\ & = 2a^2v \end{aligned}$$