

Simplifying Expressions (E)

Simplify each expression.

1. $\frac{x^3}{x} \cdot (-5x^2)$

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

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

7. $b^2 \cdot b \cdot 10b^2$

3. $9z \cdot \left(-\frac{90z^2}{9z}\right)$

8. $-c \cdot \frac{12c^3}{-4c^2}$

4. $3x \cdot x \cdot (-5x)$

9. $-6 \cdot \frac{4x^3}{-x}$

5. $6y \cdot \frac{3y^2}{y}$

10. $\frac{35z^4}{7z^2 \cdot 5z}$

Simplifying Expressions (E) Answers

Simplify each expression.

$$\begin{aligned} 1. \frac{x^3}{x} \cdot (-5x^2) \\ = -5x^4 \end{aligned}$$

$$\begin{aligned} 6. \frac{2u^2}{u} \cdot u^2 \\ = 2u^3 \end{aligned}$$

$$\begin{aligned} 2. \frac{4b}{-1} \cdot 4 \\ = -16b \end{aligned}$$

$$\begin{aligned} 7. b^2 \cdot b \cdot 10b^2 \\ = 10b^5 \end{aligned}$$

$$\begin{aligned} 3. 9z \cdot \left(-\frac{90z^2}{9z} \right) \\ = -90z^2 \end{aligned}$$

$$\begin{aligned} 8. -c \cdot \frac{12c^3}{-4c^2} \\ = 3c^2 \end{aligned}$$

$$\begin{aligned} 4. 3x \cdot x \cdot (-5x) \\ = -15x^3 \end{aligned}$$

$$\begin{aligned} 9. -6 \cdot \frac{4x^3}{-x} \\ = 24x^2 \end{aligned}$$

$$\begin{aligned} 5. 6y \cdot \frac{3y^2}{y} \\ = 18y^2 \end{aligned}$$

$$\begin{aligned} 10. \frac{35z^4}{7z^2 \cdot 5z} \\ = z \end{aligned}$$