

Simplifying Expressions (I)

Simplify each expression.

1. $-8v \cdot a + 2a + 1$

6. $5ax \cdot (-8ax) \cdot (-3) \cdot 8a$

2. $-\frac{12ax^3}{-x^2 \cdot 3x} - 3ax$

7. $\frac{7x^2}{x} - \frac{28ax}{7ax}$

3. $-c \cdot (-cu) \cdot \left(-\frac{3c}{3}\right)$

8. $-\frac{y}{-y} + cy + 8c$

4. $5 + \frac{9v^3}{9v} + 3v^2$

9. $z \cdot (-z^2) - 1 + 5b$

5. $-8 - 3 + 7v^2 - v^2$

10. $x^2 - 4v + \frac{vx}{vx}$

Simplifying Expressions (I) Answers

Simplify each expression.

$$\begin{aligned} 1. & -8v \cdot a + 2a + 1 \\ & = -8av + 2a + 1 \end{aligned}$$

$$\begin{aligned} 6. & 5ax \cdot (-8ax) \cdot (-3) \cdot 8a \\ & = 960a^3x^2 \end{aligned}$$

$$\begin{aligned} 2. & -\frac{12ax^3}{-x^2 \cdot 3x} - 3ax \\ & = -3ax + 4a \end{aligned}$$

$$\begin{aligned} 7. & \frac{7x^2}{x} - \frac{28ax}{7ax} \\ & = 7x - 4 \end{aligned}$$

$$\begin{aligned} 3. & -c \cdot (-cu) \cdot \left(-\frac{3c}{3}\right) \\ & = -c^3u \end{aligned}$$

$$\begin{aligned} 8. & -\frac{y}{-y} + cy + 8c \\ & = cy + 8c + 1 \end{aligned}$$

$$\begin{aligned} 4. & 5 + \frac{9v^3}{9v} + 3v^2 \\ & = 4v^2 + 5 \end{aligned}$$

$$\begin{aligned} 9. & z \cdot (-z^2) - 1 + 5b \\ & = -z^3 + 5b - 1 \end{aligned}$$

$$\begin{aligned} 5. & -8 - 3 + 7v^2 - v^2 \\ & = 6v^2 - 11 \end{aligned}$$

$$\begin{aligned} 10. & x^2 - 4v + \frac{vx}{vx} \\ & = x^2 - 4v + 1 \end{aligned}$$