

Simplifying Expressions (J)

Simplify each expression.

1. $-\frac{10x^3}{10x^2} - \frac{54v}{6} + 5x^2$

6. $-3 + 3 \cdot (-7) \cdot z + 10$

2. $5x + 6v^2 + 1 - x^2 + 3$

7. $3u + \frac{14u^3}{7u^2} - a + 9a$

3. $-1 - \frac{18x}{-6} + 4x^2 + x$

8. $-8z^2 \cdot 4z \cdot (-8z^2) \cdot (-3z) \cdot 2z$

4. $6 + 1 + 1 + cu - 4c^2$

9. $y \cdot 4 \cdot (-8z) \cdot 10z^2 \cdot (-5y)$

5. $-\frac{8b}{-1} - b + 8 \cdot ab$

10. $6cx - 5 + 3 + 10x - x^2$

Simplifying Expressions (J) Answers

Simplify each expression.

$$\begin{aligned} 1. \quad & -\frac{10x^3}{10x^2} - \frac{54v}{6} + 5x^2 \\ & = 5x^2 - x - 9v \end{aligned}$$

$$\begin{aligned} 6. \quad & -3 + 3 \cdot (-7) \cdot z + 10 \\ & = -21z + 7 \end{aligned}$$

$$\begin{aligned} 2. \quad & 5x + 6v^2 + 1 - x^2 + 3 \\ & = 6v^2 - x^2 + 5x + 4 \end{aligned}$$

$$\begin{aligned} 7. \quad & 3u + \frac{14u^3}{7u^2} - a + 9a \\ & = 5u + 8a \end{aligned}$$

$$\begin{aligned} 3. \quad & -1 - \frac{18x}{-6} + 4x^2 + x \\ & = 4x^2 + 4x - 1 \end{aligned}$$

$$\begin{aligned} 8. \quad & -8z^2 \cdot 4z \cdot (-8z^2) \cdot (-3z) \cdot 2z \\ & = -1536z^7 \end{aligned}$$

$$\begin{aligned} 4. \quad & 6 + 1 + 1 + cu - 4c^2 \\ & = cu - 4c^2 + 8 \end{aligned}$$

$$\begin{aligned} 9. \quad & y \cdot 4 \cdot (-8z) \cdot 10z^2 \cdot (-5y) \\ & = 1600y^2z^3 \end{aligned}$$

$$\begin{aligned} 5. \quad & -\frac{8b}{-1} - b + 8 \cdot ab \\ & = 8ab + 7b \end{aligned}$$

$$\begin{aligned} 10. \quad & 6cx - 5 + 3 + 10x - x^2 \\ & = 6cx - x^2 + 10x - 2 \end{aligned}$$