

Simplifying Expressions (J)

Simplify each expression.

1. $\frac{21u^3}{7u} + \frac{4u^4}{-4u^2}$

6. $-c \cdot (-9) - c^2 + 1$

2. $-a^2 + \frac{60a}{6} + a$

7. $\frac{8v^2}{v} + v + 5$

3. $1 + 8y^2 \cdot \frac{30y}{-3}$

8. $6u^2 + u + 3u^2 + 1$

4. $-\frac{1}{-1} - y \cdot y$

9. $-3v^2 + v^2 - v^2 + 4v$

5. $-\frac{9v^4}{-v^2} - \frac{30v^2}{-10}$

10. $\frac{40u^2}{4} + u^2 - 10$

Simplifying Expressions (J) Answers

Simplify each expression.

$$\begin{aligned} 1. \quad & \frac{21u^3}{7u} + \frac{4u^4}{-4u^2} \\ & = 2u^2 \end{aligned}$$

$$\begin{aligned} 6. \quad & -c \cdot (-9) - c^2 + 1 \\ & = -c^2 + 9c + 1 \end{aligned}$$

$$\begin{aligned} 2. \quad & -a^2 + \frac{60a}{6} + a \\ & = -a^2 + 11a \end{aligned}$$

$$\begin{aligned} 7. \quad & \frac{8v^2}{v} + v + 5 \\ & = 9v + 5 \end{aligned}$$

$$\begin{aligned} 3. \quad & 1 + 8y^2 \cdot \frac{30y}{-3} \\ & = -80y^3 + 1 \end{aligned}$$

$$\begin{aligned} 8. \quad & 6u^2 + u + 3u^2 + 1 \\ & = 9u^2 + u + 1 \end{aligned}$$

$$\begin{aligned} 4. \quad & -\frac{1}{-1} - y \cdot y \\ & = -y^2 + 1 \end{aligned}$$

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

$$\begin{aligned} 5. \quad & -\frac{9v^4}{-v^2} - \frac{30v^2}{-10} \\ & = 12v^2 \end{aligned}$$

$$\begin{aligned} 10. \quad & \frac{40u^2}{4} + u^2 - 10 \\ & = 11u^2 - 10 \end{aligned}$$