

Simplifying Expressions

Simplify each expression.

1. $-\frac{7uv^3}{-v^2} - \frac{50uv}{-5} + 1$

6. $x^2 + c + cx + x^2 - 1$

2. $\frac{4c^2z}{z} + \frac{c^3z}{c^2} + 3z$

7. $-1 + 1 - ab + 10a^2 + 7a$

3. $-\frac{3b^2v^3}{b \cdot 3v^2} + 4 \cdot b$

8. $-a^2 + b^2 + \frac{36}{6} + 9ab$

4. $-3u + 6u - 1 + c^2 + c$

9. $y - x + y + x^2 \cdot y$

5. $3 + 1 - z - uz - 1$

10. $-\frac{7x^2}{x} + 3 + \frac{10x}{x}$

Simplifying Expressions Answers

Simplify each expression.

$$\begin{aligned} 1. \quad & -\frac{7uv^3}{-v^2} - \frac{50uv}{-5} + 1 \\ & = 17uv + 1 \end{aligned}$$

$$\begin{aligned} 6. \quad & x^2 + c + cx + x^2 - 1 \\ & = 2x^2 + cx + c - 1 \end{aligned}$$

$$\begin{aligned} 2. \quad & \frac{4c^2z}{z} + \frac{c^3z}{c^2} + 3z \\ & = 4c^2 + cz + 3z \end{aligned}$$

$$\begin{aligned} 7. \quad & -1 + 1 - ab + 10a^2 + 7a \\ & = -ab + 10a^2 + 7a \end{aligned}$$

$$\begin{aligned} 3. \quad & -\frac{3b^2v^3}{b \cdot 3v^2} + 4 \cdot b \\ & = -bv + 4b \end{aligned}$$

$$\begin{aligned} 8. \quad & -a^2 + b^2 + \frac{36}{6} + 9ab \\ & = -a^2 + b^2 + 9ab + 6 \end{aligned}$$

$$\begin{aligned} 4. \quad & -3u + 6u - 1 + c^2 + c \\ & = c^2 + 3u + c - 1 \end{aligned}$$

$$\begin{aligned} 9. \quad & y - x + y + x^2 \cdot y \\ & = x^2y + 2y - x \end{aligned}$$

$$\begin{aligned} 5. \quad & 3 + 1 - z - uz - 1 \\ & = -uz - z + 3 \end{aligned}$$

$$\begin{aligned} 10. \quad & -\frac{7x^2}{x} + 3 + \frac{10x}{x} \\ & = -7x + 13 \end{aligned}$$