

## Simplifying Expressions

Simplify each expression.

1.  $\frac{5c^2v^2}{cv} - \frac{3c^3v}{c^2}$

6.  $-7v + 9u \cdot uv \cdot 5v$

2.  $-xy \cdot \frac{x^3y}{x^2} + 10$

7.  $-y - \frac{a^3y}{-ay} + 4y$

3.  $-v^2 + v^2 - a - 1$

8.  $-\frac{10a^2v^2}{-10v \cdot (-v)} \cdot 10v$

4.  $v^2 \cdot (-v^2) + 5v + 2$

9.  $a^2 - 10 - 10z + 1$

5.  $-1 \cdot (-1) \cdot 3z \cdot 8$

10.  $-z^2 \cdot 5 \cdot \frac{6z}{6z}$

## Simplifying Expressions Answers

Simplify each expression.

$$\begin{aligned} 1. \quad & \frac{5c^2v^2}{cv} - \frac{3c^3v}{c^2} \\ & = 2cv \end{aligned}$$

$$\begin{aligned} 6. \quad & -7v + 9u \cdot uv \cdot 5v \\ & = 45u^2v^2 - 7v \end{aligned}$$

$$\begin{aligned} 2. \quad & -xy \cdot \frac{x^3y}{x^2} + 10 \\ & = -x^2y^2 + 10 \end{aligned}$$

$$\begin{aligned} 7. \quad & -y - \frac{a^3y}{-ay} + 4y \\ & = a^2 + 3y \end{aligned}$$

$$\begin{aligned} 3. \quad & -v^2 + v^2 - a - 1 \\ & = -a - 1 \end{aligned}$$

$$\begin{aligned} 8. \quad & -\frac{10a^2v^2}{-10v \cdot (-v)} \cdot 10v \\ & = -10a^2v \end{aligned}$$

$$\begin{aligned} 4. \quad & v^2 \cdot (-v^2) + 5v + 2 \\ & = -v^4 + 5v + 2 \end{aligned}$$

$$\begin{aligned} 9. \quad & a^2 - 10 - 10z + 1 \\ & = a^2 - 10z - 9 \end{aligned}$$

$$\begin{aligned} 5. \quad & -1 \cdot (-1) \cdot 3z \cdot 8 \\ & = 24z \end{aligned}$$

$$\begin{aligned} 10. \quad & -z^2 \cdot 5 \cdot \frac{6z}{6z} \\ & = -5z^2 \end{aligned}$$