

## Simplifying Expressions

Simplify each expression.

1.  $2x^2 - 10x^2 + 9x$

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

2.  $7a^2 + 8a + 9a^2$

7.  $2 + 8z^2 + 1$

3.  $5 \cdot 5x^2 \cdot (-5x)$

8.  $x^2 - x - x$

4.  $-1 - a^2 - 4a^2$

9.  $-\frac{u^2}{-u^2} \cdot (-u^2)$

5.  $-x^2 - 1 - 5x^2$

10.  $-a \cdot \frac{7a^2}{a}$

## Simplifying Expressions Answers

Simplify each expression.

$$\begin{aligned} 1. \quad & 2x^2 - 10x^2 + 9x \\ & = -8x^2 + 9x \end{aligned}$$

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

$$\begin{aligned} 2. \quad & 7a^2 + 8a + 9a^2 \\ & = 16a^2 + 8a \end{aligned}$$

$$\begin{aligned} 7. \quad & 2 + 8z^2 + 1 \\ & = 8z^2 + 3 \end{aligned}$$

$$\begin{aligned} 3. \quad & 5 \cdot 5x^2 \cdot (-5x) \\ & = -125x^3 \end{aligned}$$

$$\begin{aligned} 8. \quad & x^2 - x - x \\ & = x^2 - 2x \end{aligned}$$

$$\begin{aligned} 4. \quad & -1 - a^2 - 4a^2 \\ & = -5a^2 - 1 \end{aligned}$$

$$\begin{aligned} 9. \quad & -\frac{u^2}{-u^2} \cdot (-u^2) \\ & = -u^2 \end{aligned}$$

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

$$\begin{aligned} 10. \quad & -a \cdot \frac{7a^2}{a} \\ & = -7a^2 \end{aligned}$$