

## Simplifying Expressions (E)

Simplify each expression.

1.  $7 + 7c + 5$

6.  $\frac{10x^4}{-x \cdot (-10x^2)}$

2.  $1 - 10z^2 + 8z^2$

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

3.  $4a + 1 + 1$

8.  $\frac{30c^4}{-6c \cdot (-c)}$

4.  $-1 - u^2 + 1$

9.  $-\frac{42v^2}{-7v} - 8$

5.  $-9y^2 + 3 - 8y^2$

10.  $-1 \cdot u \cdot 4u$

## Simplifying Expressions (E) Answers

Simplify each expression.

$$\begin{aligned} 1. \quad & 7 + 7c + 5 \\ & = 7c + 12 \end{aligned}$$

$$\begin{aligned} 6. \quad & \frac{10x^4}{-x \cdot (-10x^2)} \\ & = x \end{aligned}$$

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

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

$$\begin{aligned} 3. \quad & 4a + 1 + 1 \\ & = 4a + 2 \end{aligned}$$

$$\begin{aligned} 8. \quad & \frac{30c^4}{-6c \cdot (-c)} \\ & = 5c^2 \end{aligned}$$

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

$$\begin{aligned} 9. \quad & -\frac{42v^2}{-7v} - 8 \\ & = 6v - 8 \end{aligned}$$

$$\begin{aligned} 5. \quad & -9y^2 + 3 - 8y^2 \\ & = -17y^2 + 3 \end{aligned}$$

$$\begin{aligned} 10. \quad & -1 \cdot u \cdot 4u \\ & = -4u^2 \end{aligned}$$