

## Simplifying Expressions (H)

Simplify each expression.

1.  $3y + 6y + y^2$

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

2.  $2 - y - 6y$

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

3.  $-\frac{9a^3}{a \cdot (-a)}$

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

4.  $-\frac{u}{-1} + u$

9.  $\frac{6z^2}{6z} \cdot (-3z)$

5.  $-10b^2 - 2 - 1$

10.  $a^2 \cdot (-a) \cdot 7a^2$

## Simplifying Expressions (H) Answers

Simplify each expression.

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

$$\begin{aligned} 6. \quad & c^2 \cdot (-9c) \cdot c^2 \\ & = -9c^5 \end{aligned}$$

$$\begin{aligned} 2. \quad & 2 - y - 6y \\ & = -7y + 2 \end{aligned}$$

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

$$\begin{aligned} 3. \quad & -\frac{9a^3}{a \cdot (-a)} \\ & = 9a \end{aligned}$$

$$\begin{aligned} 8. \quad & 8u^2 + 1 + 7u^2 \\ & = 15u^2 + 1 \end{aligned}$$

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

$$\begin{aligned} 9. \quad & \frac{6z^2}{6z} \cdot (-3z) \\ & = -3z^2 \end{aligned}$$

$$\begin{aligned} 5. \quad & -10b^2 - 2 - 1 \\ & = -10b^2 - 3 \end{aligned}$$

$$\begin{aligned} 10. \quad & a^2 \cdot (-a) \cdot 7a^2 \\ & = -7a^5 \end{aligned}$$