

## Simplifying Expressions (E)

Simplify each expression.

1.  $-6b + \frac{bz^2}{z^2} + bz$

6.  $-10ac \cdot \left( -\frac{3ac}{-ac \cdot 3} \right)$

2.  $1 + 6x^2 + 4x + 1$

7.  $b \cdot 8b \cdot (-a^2) \cdot (-9a^2)$

3.  $10y + 1 - 2x + 1$

8.  $\frac{8az}{-2z} \cdot (-1) \cdot a$

4.  $by + 1 - 2 + 1$

9.  $-uz \cdot (-10uz) \cdot (-z) \cdot 7$

5.  $\frac{6z^4}{6z^2} - \frac{z^3}{-z}$

10.  $u - u + 10u^2 - 9$

## Simplifying Expressions (E) Answers

Simplify each expression.

$$\begin{aligned} 1. \quad & -6b + \frac{bz^2}{z^2} + bz \\ & = bz - 5b \end{aligned}$$

$$\begin{aligned} 6. \quad & -10ac \cdot \left( -\frac{3ac}{-ac \cdot 3} \right) \\ & = -10ac \end{aligned}$$

$$\begin{aligned} 2. \quad & 1 + 6x^2 + 4x + 1 \\ & = 6x^2 + 4x + 2 \end{aligned}$$

$$\begin{aligned} 7. \quad & b \cdot 8b \cdot (-a^2) \cdot (-9a^2) \\ & = 72a^4b^2 \end{aligned}$$

$$\begin{aligned} 3. \quad & 10y + 1 - 2x + 1 \\ & = 10y - 2x + 2 \end{aligned}$$

$$\begin{aligned} 8. \quad & \frac{8az}{-2z} \cdot (-1) \cdot a \\ & = 4a^2 \end{aligned}$$

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

$$\begin{aligned} 9. \quad & -uz \cdot (-10uz) \cdot (-z) \cdot 7 \\ & = -70u^2z^3 \end{aligned}$$

$$\begin{aligned} 5. \quad & \frac{6z^4}{6z^2} - \frac{z^3}{-z} \\ & = 2z^2 \end{aligned}$$

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