

Simplifying Expressions (D)

Simplify each expression.

1. $10c^2 + \frac{72}{8}$

6. $2b^2 + \frac{80b^2}{10b^2}$

2. $-y^2 + y^2 \cdot 9$

7. $-\frac{4c^4}{-4c^2} \cdot (-1)$

3. $1 - \frac{6x}{-6}$

8. $-1 + 5 - 4u$

4. $x + 3x + 9$

9. $-\frac{108z^2}{-6z \cdot 3}$

5. $\frac{8y^2}{8y^2} \cdot y^2$

10. $6v^2 + 5 + 1$

Simplifying Expressions (D) Answers

Simplify each expression.

$$\begin{aligned} 1. \quad & 10c^2 + \frac{72}{8} \\ & = 10c^2 + 9 \end{aligned}$$

$$\begin{aligned} 6. \quad & 2b^2 + \frac{80b^2}{10b^2} \\ & = 2b^2 + 8 \end{aligned}$$

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

$$\begin{aligned} 7. \quad & -\frac{4c^4}{-4c^2} \cdot (-1) \\ & = -c^2 \end{aligned}$$

$$\begin{aligned} 3. \quad & 1 - \frac{6x}{-6} \\ & = x + 1 \end{aligned}$$

$$\begin{aligned} 8. \quad & -1 + 5 - 4u \\ & = -4u + 4 \end{aligned}$$

$$\begin{aligned} 4. \quad & x + 3x + 9 \\ & = 4x + 9 \end{aligned}$$

$$\begin{aligned} 9. \quad & -\frac{108z^2}{-6z \cdot 3} \\ & = 6z \end{aligned}$$

$$\begin{aligned} 5. \quad & \frac{8y^2}{8y^2} \cdot y^2 \\ & = y^2 \end{aligned}$$

$$\begin{aligned} 10. \quad & 6v^2 + 5 + 1 \\ & = 6v^2 + 6 \end{aligned}$$