

Simplifying Expressions (D)

Simplify each expression.

1. $\frac{c}{c} + 9c^2 + 3$

6. $10 + 1 - a + 4a$

2. $-\frac{12z^4}{z \cdot (-6) \cdot 2z}$

7. $u \cdot 2u \cdot 4u^2 + u^2$

3. $7b - 5 - \frac{b^3}{-b}$

8. $6u \cdot \frac{48u^4}{6u^2 \cdot 2}$

4. $-8c^2 + c - c^2 \cdot (-c)$

9. $-5 + 2c^2 - c^2 + c^2$

5. $-8b - \frac{20b^3}{-5b^2} + 8b$

10. $a - \frac{9}{9} - a^2$

Simplifying Expressions (D) Answers

Simplify each expression.

$$\begin{aligned} 1. \quad & \frac{c}{c} + 9c^2 + 3 \\ & = 9c^2 + 4 \end{aligned}$$

$$\begin{aligned} 6. \quad & 10 + 1 - a + 4a \\ & = 3a + 11 \end{aligned}$$

$$\begin{aligned} 2. \quad & -\frac{12z^4}{z \cdot (-6) \cdot 2z} \\ & = z^2 \end{aligned}$$

$$\begin{aligned} 7. \quad & u \cdot 2u \cdot 4u^2 + u^2 \\ & = 8u^4 + u^2 \end{aligned}$$

$$\begin{aligned} 3. \quad & 7b - 5 - \frac{b^3}{-b} \\ & = b^2 + 7b - 5 \end{aligned}$$

$$\begin{aligned} 8. \quad & 6u \cdot \frac{48u^4}{6u^2 \cdot 2} \\ & = 24u^3 \end{aligned}$$

$$\begin{aligned} 4. \quad & -8c^2 + c - c^2 \cdot (-c) \\ & = c^3 - 8c^2 + c \end{aligned}$$

$$\begin{aligned} 9. \quad & -5 + 2c^2 - c^2 + c^2 \\ & = 2c^2 - 5 \end{aligned}$$

$$\begin{aligned} 5. \quad & -8b - \frac{20b^3}{-5b^2} + 8b \\ & = 4b \end{aligned}$$

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