

Simplifying Expressions (B)

Simplify each expression.

1. $\frac{5ac^2}{-c^2} + 8a^2 \cdot c \cdot (-7c)$

6. $1 - bc - \frac{10bc}{-10} + 10c$

2. $\frac{12a^2b}{-3ab} - 4ab + \frac{8ab}{2ab}$

7. $-c^2 - v + 9c^2 \cdot 9v^2 + 9c$

3. $y^2 + 7y^2 + \frac{30cy^2}{-6c} - y^2$

8. $b + 3 + 7c + 1 + 1$

4. $\frac{140y^2}{7y \cdot (-5y)} - 7y - 2$

9. $7az - 5a + \frac{a^2z^2}{az} + 1$

5. $-\frac{9u^2}{9} + 9v^2 + 10uv + 3$

10. $8 \cdot cz - 1 + 3c \cdot 2cz$

Simplifying Expressions (B) Answers

Simplify each expression.

$$\begin{aligned} 1. \quad & \frac{5ac^2}{-c^2} + 8a^2 \cdot c \cdot (-7c) \\ & = -56a^2c^2 - 5a \end{aligned}$$

$$\begin{aligned} 6. \quad & 1 - bc - \frac{10bc}{-10} + 10c \\ & = 10c + 1 \end{aligned}$$

$$\begin{aligned} 2. \quad & \frac{12a^2b}{-3ab} - 4ab + \frac{8ab}{2ab} \\ & = -4ab - 4a + 4 \end{aligned}$$

$$\begin{aligned} 7. \quad & -c^2 - v + 9c^2 \cdot 9v^2 + 9c \\ & = 81c^2v^2 - c^2 - v + 9c \end{aligned}$$

$$\begin{aligned} 3. \quad & y^2 + 7y^2 + \frac{30cy^2}{-6c} - y^2 \\ & = 2y^2 \end{aligned}$$

$$\begin{aligned} 8. \quad & b + 3 + 7c + 1 + 1 \\ & = b + 7c + 5 \end{aligned}$$

$$\begin{aligned} 4. \quad & \frac{140y^2}{7y \cdot (-5y)} - 7y - 2 \\ & = -7y - 6 \end{aligned}$$

$$\begin{aligned} 9. \quad & 7az - 5a + \frac{a^2z^2}{az} + 1 \\ & = 8az - 5a + 1 \end{aligned}$$

$$\begin{aligned} 5. \quad & -\frac{9u^2}{9} + 9v^2 + 10uv + 3 \\ & = -u^2 + 9v^2 + 10uv + 3 \end{aligned}$$

$$\begin{aligned} 10. \quad & 8 \cdot cz - 1 + 3c \cdot 2cz \\ & = 6c^2z + 8cz - 1 \end{aligned}$$