

Simplifying Expressions (H)

Simplify each expression.

1. $-v^2 - 4v^2 + 1 - 2$

6. $10z \cdot (-z) \cdot z + 7z^2$

2. $y \cdot (-7y^2) \cdot \frac{10y^2}{-10}$

7. $-8 - 1 + y + y$

3. $-\frac{56x}{7} - 10x^2 + 1$

8. $2u + \frac{4}{4} - u^2$

4. $\frac{y^2}{-1} + 4y^2 - y$

9. $u + 1 - u^2 + u^2$

5. $u^2 + \frac{49}{7} - 8u^2$

10. $-10 + 8c^2 + 4c + 2c^2$

Simplifying Expressions (H) Answers

Simplify each expression.

$$\begin{aligned} 1. & -v^2 - 4v^2 + 1 - 2 \\ & = -5v^2 - 1 \end{aligned}$$

$$\begin{aligned} 6. & 10z \cdot (-z) \cdot z + 7z^2 \\ & = -10z^3 + 7z^2 \end{aligned}$$

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

$$\begin{aligned} 7. & -8 - 1 + y + y \\ & = 2y - 9 \end{aligned}$$

$$\begin{aligned} 3. & -\frac{56x}{7} - 10x^2 + 1 \\ & = -10x^2 - 8x + 1 \end{aligned}$$

$$\begin{aligned} 8. & 2u + \frac{4}{4} - u^2 \\ & = -u^2 + 2u + 1 \end{aligned}$$

$$\begin{aligned} 4. & \frac{y^2}{-1} + 4y^2 - y \\ & = 3y^2 - y \end{aligned}$$

$$\begin{aligned} 9. & u + 1 - u^2 + u^2 \\ & = u + 1 \end{aligned}$$

$$\begin{aligned} 5. & u^2 + \frac{49}{7} - 8u^2 \\ & = -7u^2 + 7 \end{aligned}$$

$$\begin{aligned} 10. & -10 + 8c^2 + 4c + 2c^2 \\ & = 10c^2 + 4c - 10 \end{aligned}$$