

Simplifying Expressions (H)

Simplify each expression.

1. $-4 + u^2 + u - u^2 + 6 - u^2$

6. $5 + z - 6z + v + 4z - z^2$

2. $1 - uy + 1 + 2y + 1 - 5$

7. $3ax + x - x - 5a + 5x + 2ax$

3. $5u + ux - ux + x - u + 4x$

8. $-y + 3b + 5y + by + b^2 + y$

4. $2 + 3x + x - 1 + ax - 1$

9. $y^2 - y - x - 1 + y^2 + y$

5. $-bu + 2 + 4b - 1 - 1 - 2$

10. $4x - cx - 5c + x + 6x + x^2$

Simplifying Expressions (H) Answers

Simplify each expression.

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

$$\begin{aligned} 6. & 5 + z - 6z + v + 4z - z^2 \\ & = -z^2 - z + v + 5 \end{aligned}$$

$$\begin{aligned} 2. & 1 - uy + 1 + 2y + 1 - 5 \\ & = -uy + 2y - 2 \end{aligned}$$

$$\begin{aligned} 7. & 3ax + x - x - 5a + 5x + 2ax \\ & = 5ax + 5x - 5a \end{aligned}$$

$$\begin{aligned} 3. & 5u + ux - ux + x - u + 4x \\ & = 4u + 5x \end{aligned}$$

$$\begin{aligned} 8. & -y + 3b + 5y + by + b^2 + y \\ & = by + b^2 + 5y + 3b \end{aligned}$$

$$\begin{aligned} 4. & 2 + 3x + x - 1 + ax - 1 \\ & = ax + 4x \end{aligned}$$

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

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

$$\begin{aligned} 10. & 4x - cx - 5c + x + 6x + x^2 \\ & = -cx + x^2 + 11x - 5c \end{aligned}$$