

## Simplifying Expressions

Simplify each expression.

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

6.  $3v^2 + 6z + 4 - vz + vz$

2.  $5 - 2au + 1 - u + u$

7.  $4y^2 - y + y^2 + 6y^2 - 1$

3.  $-x^2 + 2 - 1 + 6x^2 - 4x^2$

8.  $6 + 2au + 6a^2 + 1 + 4au$

4.  $3u - 4 - 1 + 1 - 4uy$

9.  $-1 + 3x + 3x^2 + x^2 + 6x^2$

5.  $3y^2 + uy - u + 3y + 5uy$

10.  $-1 - 1 - 3 + 4cy - cy$

## Simplifying Expressions Answers

Simplify each expression.

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

$$\begin{aligned} 6. & 3v^2 + 6z + 4 - vz + vz \\ & = 3v^2 + 6z + 4 \end{aligned}$$

$$\begin{aligned} 2. & 5 - 2au + 1 - u + u \\ & = -2au + 6 \end{aligned}$$

$$\begin{aligned} 7. & 4y^2 - y + y^2 + 6y^2 - 1 \\ & = 11y^2 - y - 1 \end{aligned}$$

$$\begin{aligned} 3. & -x^2 + 2 - 1 + 6x^2 - 4x^2 \\ & = x^2 + 1 \end{aligned}$$

$$\begin{aligned} 8. & 6 + 2au + 6a^2 + 1 + 4au \\ & = 6au + 6a^2 + 7 \end{aligned}$$

$$\begin{aligned} 4. & 3u - 4 - 1 + 1 - 4uy \\ & = -4uy + 3u - 4 \end{aligned}$$

$$\begin{aligned} 9. & -1 + 3x + 3x^2 + x^2 + 6x^2 \\ & = 10x^2 + 3x - 1 \end{aligned}$$

$$\begin{aligned} 5. & 3y^2 + uy - u + 3y + 5uy \\ & = 3y^2 + 6uy - u + 3y \end{aligned}$$

$$\begin{aligned} 10. & -1 - 1 - 3 + 4cy - cy \\ & = 3cy - 5 \end{aligned}$$