

Simplifying Expressions

Simplify each expression.

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

6. $c + 4 + 6c + 1$

2. $-b + b^2 - 1 + b^2$

7. $5 + c + 1 - 1$

3. $6 + z + z^2 + z$

8. $-5 + 6u^2 + 3 + u$

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

9. $2u + 3u - 6u - 5u^2$

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

10. $-4b - b + 3b^2 + b$

Simplifying Expressions Answers

Simplify each expression.

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

$$\begin{aligned} 6. \quad & c + 4 + 6c + 1 \\ & = 7c + 5 \end{aligned}$$

$$\begin{aligned} 2. \quad & -b + b^2 - 1 + b^2 \\ & = 2b^2 - b - 1 \end{aligned}$$

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

$$\begin{aligned} 3. \quad & 6 + z + z^2 + z \\ & = z^2 + 2z + 6 \end{aligned}$$

$$\begin{aligned} 8. \quad & -5 + 6u^2 + 3 + u \\ & = 6u^2 + u - 2 \end{aligned}$$

$$\begin{aligned} 4. \quad & u^2 + 6 + u + 6u \\ & = u^2 + 7u + 6 \end{aligned}$$

$$\begin{aligned} 9. \quad & 2u + 3u - 6u - 5u^2 \\ & = -5u^2 - u \end{aligned}$$

$$\begin{aligned} 5. \quad & u - 6u - 4u + u^2 \\ & = u^2 - 9u \end{aligned}$$

$$\begin{aligned} 10. \quad & -4b - b + 3b^2 + b \\ & = 3b^2 - 4b \end{aligned}$$