

Simplifying Expressions (H)

Simplify each expression.

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

6. $z - 2 + 1 + 5z$

2. $5x^2 + 1 + x - 3x$

7. $3b^2 + 1 + 5b^2 - b^2$

3. $1 - z + 4z^2 + 2z^2$

8. $-z + 1 + z^2 + 1$

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

9. $a + 6a^2 + 1 + a^2$

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

10. $a^2 - 3 + a - a$

Simplifying Expressions (H) Answers

Simplify each expression.

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

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

$$\begin{aligned} 2. \quad & 5x^2 + 1 + x - 3x \\ & = 5x^2 - 2x + 1 \end{aligned}$$

$$\begin{aligned} 7. \quad & 3b^2 + 1 + 5b^2 - b^2 \\ & = 7b^2 + 1 \end{aligned}$$

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

$$\begin{aligned} 8. \quad & -z + 1 + z^2 + 1 \\ & = z^2 - z + 2 \end{aligned}$$

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

$$\begin{aligned} 9. \quad & a + 6a^2 + 1 + a^2 \\ & = 7a^2 + a + 1 \end{aligned}$$

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

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