

Simplifying Quadratic Expressions (E)

Simplify each expression by combining like terms.

1. $-2c + 4c^2 + 5c^2 - 3 + 4c^2$

2. $6 - 7n - 5n^2 + 9 + 2$

3. $-3 + 4 + 4 - 9 - 9h^2$

4. $-8j^2 + 4j^2 + 9j^2 + 2 + 7j$

5. $-6t - 4t^2 + 9t^2 - 6t - 8t$

6. $1 - 8v + 2v^2 + 3 - 7v^2$

7. $-6a^2 + 9a + 5a^2 + 5 - a$

8. $5r + 9r - 2r^2 + 4r + 3r$

9. $x^2 + 8x - 3 - 6x^2 + 2$

10. $5g^2 + 5g^2 + 3g - 3g + 6g^2$

Simplifying Quadratic Expressions (E) Answers

Simplify each expression by combining like terms.

$$\begin{aligned} 1. & -2c + 4c^2 + 5c^2 - 3 + 4c^2 \\ & = 13c^2 - 2c - 3 \end{aligned}$$

$$\begin{aligned} 2. & 6 - 7n - 5n^2 + 9 + 2 \\ & = -5n^2 - 7n + 17 \end{aligned}$$

$$\begin{aligned} 3. & -3 + 4 + 4 - 9 - 9h^2 \\ & = -9h^2 - 4 \end{aligned}$$

$$\begin{aligned} 4. & -8j^2 + 4j^2 + 9j^2 + 2 + 7j \\ & = 5j^2 + 7j + 2 \end{aligned}$$

$$\begin{aligned} 5. & -6t - 4t^2 + 9t^2 - 6t - 8t \\ & = 5t^2 - 20t \end{aligned}$$

$$\begin{aligned} 6. & 1 - 8v + 2v^2 + 3 - 7v^2 \\ & = -5v^2 - 8v + 4 \end{aligned}$$

$$\begin{aligned} 7. & -6a^2 + 9a + 5a^2 + 5 - a \\ & = -a^2 + 8a + 5 \end{aligned}$$

$$\begin{aligned} 8. & 5r + 9r - 2r^2 + 4r + 3r \\ & = -2r^2 + 21r \end{aligned}$$

$$\begin{aligned} 9. & x^2 + 8x - 3 - 6x^2 + 2 \\ & = -5x^2 + 8x - 1 \end{aligned}$$

$$\begin{aligned} 10. & 5g^2 + 5g^2 + 3g - 3g + 6g^2 \\ & = 16g^2 \end{aligned}$$