

Simplifying Quadratic Expressions (G)

Simplify each expression by combining like terms.

1. $-9s^2 + 7s - 3s^2 - 7s^2 - 6$

2. $-1 + 4v^2 - 7v^2 + 4 + 9v^2$

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

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

5. $2c - 2c^2 + 2c - 9c + 6$

6. $-8y^2 + 5 - 9 + 5y + 3$

7. $7k^2 + 1 - 5 + 3 - 6k^2$

8. $-9 - 2q - q^2 + 2 - 8q^2$

9. $5 - 2 + 5t^2 + t^2 + 2$

10. $4j^2 + 3j^2 - 9j^2 + 8j^2 - 9j$

Simplifying Quadratic Expressions (G) Answers

Simplify each expression by combining like terms.

$$\begin{aligned} 1. & -9s^2 + 7s - 3s^2 - 7s^2 - 6 \\ & = -19s^2 + 7s - 6 \end{aligned}$$

$$\begin{aligned} 2. & -1 + 4v^2 - 7v^2 + 4 + 9v^2 \\ & = 6v^2 + 3 \end{aligned}$$

$$\begin{aligned} 3. & -9j^2 + 5j - 6 + 2 - 2j^2 \\ & = -11j^2 + 5j - 4 \end{aligned}$$

$$\begin{aligned} 4. & 4s - s^2 + 4s - 3s + 9s \\ & = -s^2 + 14s \end{aligned}$$

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

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

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

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

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

$$\begin{aligned} 10. & 4j^2 + 3j^2 - 9j^2 + 8j^2 - 9j \\ & = 6j^2 - 9j \end{aligned}$$