

Simplifying Quadratic Expressions (B)

Simplify each expression by combining like terms.

1. $-5b^2 - 4b^2 - 7b + 3 - 6 - 6b - 7b$

2. $6 + 9s^2 + 8 + 6s - 4s^2 - 8s + s^2$

3. $4n^2 - 9 + 2n + 6n^2 + 8n^2 + n^2 + 7n^2$

4. $4j - 5 - 1 - 6 + 8 + 3j^2 + 5j^2$

5. $-7r + 9r^2 + 1 + 5r + 1 - 3r + 3r$

6. $2 + 2y^2 + 9 + 9y^2 + 9y - 2y - 9$

7. $2m - 5m^2 - 7m^2 + 3m - 9m^2 - m^2 + 3m$

8. $-f^2 - 7f + 5 - 5f + 2f^2 - 9f^2 - 9f$

9. $q - 4 - 4q^2 - 8 - 4 - 5q^2 - q^2$

10. $4z^2 - 9z^2 + 3z^2 - 4z + 6z^2 + 5z + 9z^2$

Simplifying Quadratic Expressions (B) Answers

Simplify each expression by combining like terms.

$$\begin{aligned} 1. & -5b^2 - 4b^2 - 7b + 3 - 6 - 6b - 7b \\ & = -9b^2 - 20b - 3 \end{aligned}$$

$$\begin{aligned} 2. & 6 + 9s^2 + 8 + 6s - 4s^2 - 8s + s^2 \\ & = 6s^2 - 2s + 14 \end{aligned}$$

$$\begin{aligned} 3. & 4n^2 - 9 + 2n + 6n^2 + 8n^2 + n^2 + 7n^2 \\ & = 26n^2 + 2n - 9 \end{aligned}$$

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

$$\begin{aligned} 5. & -7r + 9r^2 + 1 + 5r + 1 - 3r + 3r \\ & = 9r^2 - 2r + 2 \end{aligned}$$

$$\begin{aligned} 6. & 2 + 2y^2 + 9 + 9y^2 + 9y - 2y - 9 \\ & = 11y^2 + 7y + 2 \end{aligned}$$

$$\begin{aligned} 7. & 2m - 5m^2 - 7m^2 + 3m - 9m^2 - m^2 + 3m \\ & = -22m^2 + 8m \end{aligned}$$

$$\begin{aligned} 8. & -f^2 - 7f + 5 - 5f + 2f^2 - 9f^2 - 9f \\ & = -8f^2 - 21f + 5 \end{aligned}$$

$$\begin{aligned} 9. & q - 4 - 4q^2 - 8 - 4 - 5q^2 - q^2 \\ & = -10q^2 + q - 16 \end{aligned}$$

$$\begin{aligned} 10. & 4z^2 - 9z^2 + 3z^2 - 4z + 6z^2 + 5z + 9z^2 \\ & = 13z^2 + z \end{aligned}$$