

Simplifying Quadratic Expressions (D)

Simplify each expression by combining like terms.

1. $9p^2 + 9 - 9p^2 + 5p^2 - 5$

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

3. $-5j^2 - 5j^2 - 2 + 4 - 3j^2$

4. $5 + 2t^2 - 7 - 5t + 2t^2$

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

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

7. $9c^2 - 5c + 4c^2 - 7c + 5c^2$

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

9. $5 + 9c^2 + 8c^2 + 9 - 9$

10. $9 + j - j^2 + 2j^2 - 6$

Simplifying Quadratic Expressions (D) Answers

Simplify each expression by combining like terms.

$$\begin{aligned} 1. & 9p^2 + 9 - 9p^2 + 5p^2 - 5 \\ & = 5p^2 + 4 \end{aligned}$$

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

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

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

$$\begin{aligned} 5. & -9s + 6s^2 + 8s^2 + 5s + 3s^2 \\ & = 17s^2 - 4s \end{aligned}$$

$$\begin{aligned} 6. & -5d^2 - 3d^2 + 9d^2 + 9d^2 + 2d^2 \\ & = 12d^2 \end{aligned}$$

$$\begin{aligned} 7. & 9c^2 - 5c + 4c^2 - 7c + 5c^2 \\ & = 18c^2 - 12c \end{aligned}$$

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

$$\begin{aligned} 9. & 5 + 9c^2 + 8c^2 + 9 - 9 \\ & = 17c^2 + 5 \end{aligned}$$

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