

Simplifying Quadratic Expressions (B)

Simplify each expression by combining like terms.

1. $p^2 - p + 1 + 7p^2 + 6p$

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

3. $4n^2 + 7n^2 + 9n^2 - 3 - 5n^2$

4. $5d + 7d^2 + 6d^2 - 6d^2 - 3$

5. $8d - 8d^2 + 6d^2 - 1 + 3$

6. $3 - 4c - 4c - 3c^2 - 8c$

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

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

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

10. $4r + 5r^2 - 2r^2 - 2r + 2r^2$

Simplifying Quadratic Expressions (B) Answers

Simplify each expression by combining like terms.

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

$$\begin{aligned} 2. & -9 + 9m^2 - 7m - m^2 + 7m^2 \\ & = 15m^2 - 7m - 9 \end{aligned}$$

$$\begin{aligned} 3. & 4n^2 + 7n^2 + 9n^2 - 3 - 5n^2 \\ & = 15n^2 - 3 \end{aligned}$$

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

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

$$\begin{aligned} 6. & 3 - 4c - 4c - 3c^2 - 8c \\ & = -3c^2 - 16c + 3 \end{aligned}$$

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

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

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

$$\begin{aligned} 10. & 4r + 5r^2 - 2r^2 - 2r + 2r^2 \\ & = 5r^2 + 2r \end{aligned}$$