

Simplifying Quadratic Expressions (I)

Simplify each expression by combining like terms.

1. $5v^2 + 8v^2 + 5v^2 - 1 + 7v$

2. $-2k^2 + k - 6k - 9k + 3k^2$

3. $-5f^2 + 8 - 2f - 7f^2 - 6$

4. $3m^2 + 8m^2 - m - 7m^2 + 3$

5. $-8m^2 + 9 - 8 + 5 - 4m^2$

6. $-3 - 9r + 6r^2 - 9r^2 - r$

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

8. $3w - 9w^2 + 2w^2 - 9w^2 + 9w$

9. $-t^2 + 3t^2 + 3 + 6t + 6t$

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

Simplifying Quadratic Expressions (I) Answers

Simplify each expression by combining like terms.

$$\begin{aligned} 1. & 5v^2 + 8v^2 + 5v^2 - 1 + 7v \\ & = 18v^2 + 7v - 1 \end{aligned}$$

$$\begin{aligned} 2. & -2k^2 + k - 6k - 9k + 3k^2 \\ & = k^2 - 14k \end{aligned}$$

$$\begin{aligned} 3. & -5f^2 + 8 - 2f - 7f^2 - 6 \\ & = -12f^2 - 2f + 2 \end{aligned}$$

$$\begin{aligned} 4. & 3m^2 + 8m^2 - m - 7m^2 + 3 \\ & = 4m^2 - m + 3 \end{aligned}$$

$$\begin{aligned} 5. & -8m^2 + 9 - 8 + 5 - 4m^2 \\ & = -12m^2 + 6 \end{aligned}$$

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

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

$$\begin{aligned} 8. & 3w - 9w^2 + 2w^2 - 9w^2 + 9w \\ & = -16w^2 + 12w \end{aligned}$$

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

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