

Simplifying Quadratic Expressions (A)

Simplify each expression by combining like terms.

1. $-5t^2 + 3t^2 - 9t + 4 + 8t^2 + t$

2. $8q^2 + 6 - 5q + 2 - 8 + 5q^2$

3. $4f - 7f^2 + 9 - 5f + 6 - 6f$

4. $6 + 7m^2 + 5 - 6m - 6m^2 - 8$

5. $7w^2 + w - 2w + 3w - 8 + 2$

6. $-9n^2 - 9 + 4 - 4n^2 - 1 + 3$

7. $8b^2 - 4 - 6 - 6 - 5b - 8b^2$

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

9. $-6t^2 + 7t^2 - 5t^2 - 3t^2 + 5t + 8t^2$

10. $-9 + 3t^2 - 2t^2 - 3t^2 + 8t^2 + 8t$

Simplifying Quadratic Expressions (A) Answers

Simplify each expression by combining like terms.

$$\begin{aligned} 1. & -5t^2 + 3t^2 - 9t + 4 + 8t^2 + t \\ & = 6t^2 - 8t + 4 \end{aligned}$$

$$\begin{aligned} 2. & 8q^2 + 6 - 5q + 2 - 8 + 5q^2 \\ & = 13q^2 - 5q \end{aligned}$$

$$\begin{aligned} 3. & 4f - 7f^2 + 9 - 5f + 6 - 6f \\ & = -7f^2 - 7f + 15 \end{aligned}$$

$$\begin{aligned} 4. & 6 + 7m^2 + 5 - 6m - 6m^2 - 8 \\ & = m^2 - 6m + 3 \end{aligned}$$

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

$$\begin{aligned} 6. & -9n^2 - 9 + 4 - 4n^2 - 1 + 3 \\ & = -13n^2 - 3 \end{aligned}$$

$$\begin{aligned} 7. & 8b^2 - 4 - 6 - 6 - 5b - 8b^2 \\ & = -5b - 16 \end{aligned}$$

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

$$\begin{aligned} 9. & -6t^2 + 7t^2 - 5t^2 - 3t^2 + 5t + 8t^2 \\ & = t^2 + 5t \end{aligned}$$

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

Simplifying Quadratic Expressions (B)

Simplify each expression by combining like terms.

1. $-6t^2 - 3t - 2t - 4t^2 + 3t + 6t^2$

2. $-7z + 8z + 3z^2 + 8z^2 - 6z^2 - 9z$

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

4. $3 - 7y - 3y^2 - 6y^2 - 6y - 5y^2$

5. $-7 - 6k^2 - 8k^2 + 6k^2 + 4k - 2$

6. $-7d^2 + 5d^2 - 9d - 8d - 9 - 5$

7. $1 + 8 + 2b^2 - 6b - 2 - 4b^2$

8. $5b^2 + 7 - 2 - b - 2b^2 + b^2$

9. $7 + 7 + w^2 - 8w + w - 8w$

10. $-7 + 5 - 6v^2 - 5v - v - 3v^2$

Simplifying Quadratic Expressions (B) Answers

Simplify each expression by combining like terms.

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

$$\begin{aligned} 2. & -7z + 8z + 3z^2 + 8z^2 - 6z^2 - 9z \\ & = 5z^2 - 8z \end{aligned}$$

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

$$\begin{aligned} 4. & 3 - 7y - 3y^2 - 6y^2 - 6y - 5y^2 \\ & = -14y^2 - 13y + 3 \end{aligned}$$

$$\begin{aligned} 5. & -7 - 6k^2 - 8k^2 + 6k^2 + 4k - 2 \\ & = -8k^2 + 4k - 9 \end{aligned}$$

$$\begin{aligned} 6. & -7d^2 + 5d^2 - 9d - 8d - 9 - 5 \\ & = -2d^2 - 17d - 14 \end{aligned}$$

$$\begin{aligned} 7. & 1 + 8 + 2b^2 - 6b - 2 - 4b^2 \\ & = -2b^2 - 6b + 7 \end{aligned}$$

$$\begin{aligned} 8. & 5b^2 + 7 - 2 - b - 2b^2 + b^2 \\ & = 4b^2 - b + 5 \end{aligned}$$

$$\begin{aligned} 9. & 7 + 7 + w^2 - 8w + w - 8w \\ & = w^2 - 15w + 14 \end{aligned}$$

$$\begin{aligned} 10. & -7 + 5 - 6v^2 - 5v - v - 3v^2 \\ & = -9v^2 - 6v - 2 \end{aligned}$$

Simplifying Quadratic Expressions (C)

Simplify each expression by combining like terms.

1. $-2n^2 - 4n^2 - n - 5 - 3 - 5n^2$

2. $3y^2 - 8y + 6 + 4y^2 + y^2 - 8y$

3. $-1 - 8n^2 + 3n - 1 + 4 + 9$

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

5. $-3f^2 - 9 + 9f^2 - 1 - 4 - 5f$

6. $p^2 - 2p^2 - p - 7p^2 + 4p + 4p^2$

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

8. $5 + 9a - 7a - 6a^2 - 9a + a$

9. $2d^2 + 9 + 4d^2 + 8d - 8d^2 + 2$

10. $-6 + 6t - 4 + 8t^2 + 6t^2 - 7$

Simplifying Quadratic Expressions (C) Answers

Simplify each expression by combining like terms.

$$\begin{aligned} 1. & -2n^2 - 4n^2 - n - 5 - 3 - 5n^2 \\ & = -11n^2 - n - 8 \end{aligned}$$

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

$$\begin{aligned} 3. & -1 - 8n^2 + 3n - 1 + 4 + 9 \\ & = -8n^2 + 3n + 11 \end{aligned}$$

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

$$\begin{aligned} 5. & -3f^2 - 9 + 9f^2 - 1 - 4 - 5f \\ & = 6f^2 - 5f - 14 \end{aligned}$$

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

$$\begin{aligned} 7. & -2d^2 - 7 + 2d^2 - 3 - 9d^2 - 5d \\ & = -9d^2 - 5d - 10 \end{aligned}$$

$$\begin{aligned} 8. & 5 + 9a - 7a - 6a^2 - 9a + a \\ & = -6a^2 - 6a + 5 \end{aligned}$$

$$\begin{aligned} 9. & 2d^2 + 9 + 4d^2 + 8d - 8d^2 + 2 \\ & = -2d^2 + 8d + 11 \end{aligned}$$

$$\begin{aligned} 10. & -6 + 6t - 4 + 8t^2 + 6t^2 - 7 \\ & = 14t^2 + 6t - 17 \end{aligned}$$

Simplifying Quadratic Expressions (D)

Simplify each expression by combining like terms.

1. $-q^2 + 8 + 7 + 2q - 7 + 9q$

2. $g^2 - 6g^2 - 8g - 9g^2 - 7 + 5g^2$

3. $-3t^2 - 3t - 5t^2 - 8t - t^2 + 8t^2$

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

5. $-6f + 4f^2 - 3f^2 + 6f^2 - 5f^2 + 6f^2$

6. $2h^2 + 6 + 7 + 8 + 7h^2 + 9$

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

8. $4 + 7g^2 + g + 6g^2 - 5g^2 - 5$

9. $4d + 2d - 5 + 3d - 8 - 9d^2$

10. $-4x + 4x^2 + 2 - 4 + 9x - 9x^2$

Simplifying Quadratic Expressions (D) Answers

Simplify each expression by combining like terms.

$$\begin{aligned} 1. & -q^2 + 8 + 7 + 2q - 7 + 9q \\ & = -q^2 + 11q + 8 \end{aligned}$$

$$\begin{aligned} 2. & g^2 - 6g^2 - 8g - 9g^2 - 7 + 5g^2 \\ & = -9g^2 - 8g - 7 \end{aligned}$$

$$\begin{aligned} 3. & -3t^2 - 3t - 5t^2 - 8t - t^2 + 8t^2 \\ & = -t^2 - 11t \end{aligned}$$

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

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

$$\begin{aligned} 6. & 2h^2 + 6 + 7 + 8 + 7h^2 + 9 \\ & = 9h^2 + 30 \end{aligned}$$

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

$$\begin{aligned} 8. & 4 + 7g^2 + g + 6g^2 - 5g^2 - 5 \\ & = 8g^2 + g - 1 \end{aligned}$$

$$\begin{aligned} 9. & 4d + 2d - 5 + 3d - 8 - 9d^2 \\ & = -9d^2 + 9d - 13 \end{aligned}$$

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

Simplifying Quadratic Expressions (E)

Simplify each expression by combining like terms.

1. $3n - 9 + 9n - 5 + 4 + 8n^2$

2. $-6x^2 - 3x^2 + 4x^2 + 6x + x^2 - 4x^2$

3. $9z - 2z^2 + 1 - 1 + 5z - 8$

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

5. $3w - 7w - 9w^2 + 8w + 4w^2 - 7w$

6. $-3t^2 - t + 7t - 4t^2 - 9t + 3$

7. $-8t^2 + 3t^2 + 6t^2 - 9t - 7t + 7t$

8. $5w + 7w - 7 + 2w - 6w^2 + w^2$

9. $-6 - 3w^2 + 4w^2 + 4w^2 - 3w - 9w$

10. $-8b^2 + 2b^2 - 7b^2 - b + b + 6b$

Simplifying Quadratic Expressions (E) Answers

Simplify each expression by combining like terms.

$$\begin{aligned} 1. & 3n - 9 + 9n - 5 + 4 + 8n^2 \\ & = 8n^2 + 12n - 10 \end{aligned}$$

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

$$\begin{aligned} 3. & 9z - 2z^2 + 1 - 1 + 5z - 8 \\ & = -2z^2 + 14z - 8 \end{aligned}$$

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

$$\begin{aligned} 5. & 3w - 7w - 9w^2 + 8w + 4w^2 - 7w \\ & = -5w^2 - 3w \end{aligned}$$

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

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

$$\begin{aligned} 8. & 5w + 7w - 7 + 2w - 6w^2 + w^2 \\ & = -5w^2 + 14w - 7 \end{aligned}$$

$$\begin{aligned} 9. & -6 - 3w^2 + 4w^2 + 4w^2 - 3w - 9w \\ & = 5w^2 - 12w - 6 \end{aligned}$$

$$\begin{aligned} 10. & -8b^2 + 2b^2 - 7b^2 - b + b + 6b \\ & = -13b^2 + 6b \end{aligned}$$

Simplifying Quadratic Expressions (F)

Simplify each expression by combining like terms.

1. $4j^2 + 4j - 6j - 9j - 2j^2 + 7j$

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

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

4. $-2 + 3b^2 - 3b^2 + 6b + 6 - 2b^2$

5. $-6w^2 - 7 + 2w - 5w^2 - 5w^2 + 5w$

6. $-3 - 9k + 2k^2 + 8k + 6k^2 - 3k^2$

7. $-4m^2 + 6m^2 - 3m^2 + 2m + 7 - 4m^2$

8. $-6f^2 + 5 - 5 + 3f - 4f^2 - 6$

9. $1 - 4y^2 - 5y^2 + 3y + 8y^2 - 9y^2$

10. $6z^2 + 7 + 6 - z - 5 + 9z$

Simplifying Quadratic Expressions (F) Answers

Simplify each expression by combining like terms.

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

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

$$\begin{aligned} 3. & -9 - 2 + 9g^2 + 9g^2 - 4g^2 - 4g^2 \\ & = 10g^2 - 11 \end{aligned}$$

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

$$\begin{aligned} 5. & -6w^2 - 7 + 2w - 5w^2 - 5w^2 + 5w \\ & = -16w^2 + 7w - 7 \end{aligned}$$

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

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

$$\begin{aligned} 8. & -6f^2 + 5 - 5 + 3f - 4f^2 - 6 \\ & = -10f^2 + 3f - 6 \end{aligned}$$

$$\begin{aligned} 9. & 1 - 4y^2 - 5y^2 + 3y + 8y^2 - 9y^2 \\ & = -10y^2 + 3y + 1 \end{aligned}$$

$$\begin{aligned} 10. & 6z^2 + 7 + 6 - z - 5 + 9z \\ & = 6z^2 + 8z + 8 \end{aligned}$$

Simplifying Quadratic Expressions (G)

Simplify each expression by combining like terms.

1. $3x^2 - 6x^2 - 5x + 9 - 4x + 9x^2$

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

3. $6z^2 + 8z^2 - 8z^2 - 9z + z + 8z$

4. $-6x^2 - 5x^2 - 5x^2 + 2x^2 - 8x^2 - 8x^2$

5. $-4f^2 - 9f + 8 - 6 - 6 + 3f^2$

6. $7w - 7w + w - 8w^2 - 2w^2 - 7w$

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

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

9. $4 + 8 + 5v - 4v^2 + 4v^2 - 6$

10. $-b^2 + 8 + 4b^2 + 5b^2 + 4b^2 + 5b^2$

Simplifying Quadratic Expressions (G) Answers

Simplify each expression by combining like terms.

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

$$\begin{aligned} 2. & s + 9s + s + 3 + s^2 - 2 \\ & = s^2 + 11s + 1 \end{aligned}$$

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

$$\begin{aligned} 4. & -6x^2 - 5x^2 - 5x^2 + 2x^2 - 8x^2 - 8x^2 \\ & = -30x^2 \end{aligned}$$

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

$$\begin{aligned} 6. & 7w - 7w + w - 8w^2 - 2w^2 - 7w \\ & = -10w^2 - 6w \end{aligned}$$

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

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

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

$$\begin{aligned} 10. & -b^2 + 8 + 4b^2 + 5b^2 + 4b^2 + 5b^2 \\ & = 17b^2 + 8 \end{aligned}$$

Simplifying Quadratic Expressions (H)

Simplify each expression by combining like terms.

1. $4 - 2f^2 + 9 + 2f + 2f + 8f$

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

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

4. $7 - 4d^2 - 4d^2 + 9 + 9d^2 - 2d^2$

5. $4 + 2w^2 - 8w + 3w^2 + 9w - 6w^2$

6. $-6t - 8t^2 + 3t^2 + 4 + 4t^2 - 7$

7. $-1 - n^2 - 4 + 3n^2 + 2 - 8n^2$

8. $-5m + 5m^2 + 1 + 5m + 3m + 4m^2$

9. $5m + 8m^2 - 1 - 7m^2 + 5 - 6m$

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

Simplifying Quadratic Expressions (H) Answers

Simplify each expression by combining like terms.

$$\begin{aligned} 1. & 4 - 2f^2 + 9 + 2f + 2f + 8f \\ & = -2f^2 + 12f + 13 \end{aligned}$$

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

$$\begin{aligned} 3. & 9 + 6h - h^2 + 5 + 6h + 9h \\ & = -h^2 + 21h + 14 \end{aligned}$$

$$\begin{aligned} 4. & 7 - 4d^2 - 4d^2 + 9 + 9d^2 - 2d^2 \\ & = -d^2 + 16 \end{aligned}$$

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

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

$$\begin{aligned} 7. & -1 - n^2 - 4 + 3n^2 + 2 - 8n^2 \\ & = -6n^2 - 3 \end{aligned}$$

$$\begin{aligned} 8. & -5m + 5m^2 + 1 + 5m + 3m + 4m^2 \\ & = 9m^2 + 3m + 1 \end{aligned}$$

$$\begin{aligned} 9. & 5m + 8m^2 - 1 - 7m^2 + 5 - 6m \\ & = m^2 - m + 4 \end{aligned}$$

$$\begin{aligned} 10. & 4 + 9c - 3 + 8 + 8 - 4c^2 \\ & = -4c^2 + 9c + 17 \end{aligned}$$

Simplifying Quadratic Expressions (I)

Simplify each expression by combining like terms.

1. $8 - 6 - 2v^2 + 7v + 7 - 9v^2$

2. $-8 - 2 + 1 + 8f^2 - 6f^2 - 9f$

3. $-4w^2 + 8w^2 - 5w^2 - 3w^2 - w + 9$

4. $6k^2 - 9k^2 + k^2 - 5 - 3k^2 - 4$

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

6. $-4 + 7s - 3s + 5s + 2s - 9s^2$

7. $-6f^2 + 3 + 9f + 4f^2 - 3f^2 + 4f^2$

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

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

10. $7y + 5y^2 + y + y + 9 - 7y^2$

Simplifying Quadratic Expressions (I) Answers

Simplify each expression by combining like terms.

$$\begin{aligned} 1. & 8 - 6 - 2v^2 + 7v + 7 - 9v^2 \\ & = -11v^2 + 7v + 9 \end{aligned}$$

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

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

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

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

$$\begin{aligned} 6. & -4 + 7s - 3s + 5s + 2s - 9s^2 \\ & = -9s^2 + 11s - 4 \end{aligned}$$

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

$$\begin{aligned} 8. & -8s^2 + 3 - 2s^2 + 9s - 8s^2 - 5s^2 \\ & = -23s^2 + 9s + 3 \end{aligned}$$

$$\begin{aligned} 9. & 6b + 6b + 3 + b^2 - b - 7b^2 \\ & = -6b^2 + 11b + 3 \end{aligned}$$

$$\begin{aligned} 10. & 7y + 5y^2 + y + y + 9 - 7y^2 \\ & = -2y^2 + 9y + 9 \end{aligned}$$

Simplifying Quadratic Expressions (J)

Simplify each expression by combining like terms.

1. $-3g^2 + 2 - g + 2 + 3 + 5g^2$

2. $-4f^2 + 3f - 8f^2 + 3 + 6f - 3f^2$

3. $5 + 2p^2 + 5p^2 + 5 - 5p^2 - 6p^2$

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

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

6. $8x^2 - 2 - 5x^2 + 8 + 8 - 3x^2$

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

8. $-2v + 5v^2 - v + 7v^2 - 9 - 6v^2$

9. $6 - 4h + 5h + 9h^2 - 2h^2 + 6h^2$

10. $-5x^2 - 1 - 7 + 3x^2 + 3x^2 - 6x^2$

Simplifying Quadratic Expressions (J) Answers

Simplify each expression by combining like terms.

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

$$\begin{aligned} 2. & -4f^2 + 3f - 8f^2 + 3 + 6f - 3f^2 \\ & = -15f^2 + 9f + 3 \end{aligned}$$

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

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

$$\begin{aligned} 5. & -7w + w - 7w^2 - 5 + 9w^2 - 4w \\ & = 2w^2 - 10w - 5 \end{aligned}$$

$$\begin{aligned} 6. & 8x^2 - 2 - 5x^2 + 8 + 8 - 3x^2 \\ & = 14 \end{aligned}$$

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

$$\begin{aligned} 8. & -2v + 5v^2 - v + 7v^2 - 9 - 6v^2 \\ & = 6v^2 - 3v - 9 \end{aligned}$$

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

$$\begin{aligned} 10. & -5x^2 - 1 - 7 + 3x^2 + 3x^2 - 6x^2 \\ & = -5x^2 - 8 \end{aligned}$$