

Simplifying Quadratic Expressions (C)

Simplify each expression by combining like terms.

$$1. \ 7s - 9 - s^2 + 6 - 5 - 3 - 3s$$

$$2. \ -6m^2 + 4m + 6 + 6m + 2 - 6m - 5m^2$$

$$3. \ n^2 - 3n^2 + 4 - 2n^2 - 4n + 8n + 3n$$

$$4. \ 7 - 2k^2 - 8 + 8k^2 + 3 - 3k^2 - 9k^2$$

$$5. \ -5 - 9 - 2j - 4j^2 - 6j^2 - 2j + 8j^2$$

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

$$7. \ 6 + 8s^2 - 3s^2 - 8s^2 + 5s - 4s + 4s$$

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

$$9. \ 7s^2 - 8s^2 - 8 + 9s - 2 - 3s^2 + 3$$

$$10. \ 4h - 4 - 9 + 8h^2 + 7h^2 + 4h + 6$$

Simplifying Quadratic Expressions (C) Answers

Simplify each expression by combining like terms.

$$1. 7s - 9 - s^2 + 6 - 5 - 3 - 3s \\ = -s^2 + 4s - 11$$

$$2. -6m^2 + 4m + 6 + 6m + 2 - 6m - 5m^2 \\ = -11m^2 + 4m + 8$$

$$3. n^2 - 3n^2 + 4 - 2n^2 - 4n + 8n + 3n \\ = -4n^2 + 7n + 4$$

$$4. 7 - 2k^2 - 8 + 8k^2 + 3 - 3k^2 - 9k^2 \\ = -6k^2 + 2$$

$$5. -5 - 9 - 2j - 4j^2 - 6j^2 - 2j + 8j^2 \\ = -2j^2 - 4j - 14$$

$$6. 5f^2 + 7f^2 - 7f - 8 - 8f + 8f - 7f^2 \\ = 5f^2 - 7f - 8$$

$$7. 6 + 8s^2 - 3s^2 - 8s^2 + 5s - 4s + 4s \\ = -3s^2 + 5s + 6$$

$$8. 5d^2 - 1 - 4d + 3d + 1 + 8d^2 + 9d^2 \\ = 22d^2 - d$$

$$9. 7s^2 - 8s^2 - 8 + 9s - 2 - 3s^2 + 3 \\ = -4s^2 + 9s - 7$$

$$10. 4h - 4 - 9 + 8h^2 + 7h^2 + 4h + 6 \\ = 15h^2 + 8h - 7$$