

Simplifying Quadratic Expressions (D)

Simplify each expression by combining like terms.

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

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

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

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

$$5. 9m^2 - 6m^2 - 4 + 8 - 1 - m - 8m^2 - 6m^2 - 3m$$

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

$$7. 6d - d + 4d - 9d^2 - 6 + 5 - 5 - 9 + 7$$

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

$$9. -6g^2 + 4g^2 - 7g^2 + g^2 + 2g - 2g + 1 - 9g^2 + 3g^2$$

$$10. -2 - 3g - 9g - 3g - 6g^2 + 8g + 8g^2 + 8g - 7g^2$$

Simplifying Quadratic Expressions (D) Answers

Simplify each expression by combining like terms.

$$1. -5f^2 + f^2 + 6f - 7f^2 - 7 - 9f^2 + 1 - 5f^2 + 8f^2 \\ = -17f^2 + 6f - 6$$

$$2. 2f - 8f^2 - 3f^2 + 3f^2 - 9 - f^2 - 7f^2 - 6 + 6f^2 \\ = -10f^2 + 2f - 15$$

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

$$4. -5a - 5a + 3a^2 + 9a - 8 - 5a + 6 - 4 + 6 \\ = 3a^2 - 6a$$

$$5. 9m^2 - 6m^2 - 4 + 8 - 1 - m - 8m^2 - 6m^2 - 3m \\ = -11m^2 - 4m + 3$$

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

$$7. 6d - d + 4d - 9d^2 - 6 + 5 - 5 - 9 + 7 \\ = -9d^2 + 9d - 8$$

$$8. -4f^2 + 7 + 8f - 5f - 8f^2 - 6f - 6f + 2f^2 - 2f^2 \\ = -12f^2 - 9f + 7$$

$$9. -6g^2 + 4g^2 - 7g^2 + g^2 + 2g - 2g + 1 - 9g^2 + 3g^2 \\ = -14g^2 + 1$$

$$10. -2 - 3g - 9g - 3g - 6g^2 + 8g + 8g^2 + 8g - 7g^2 \\ = -5g^2 + g - 2$$