

Adding & Subtracting Quadratic Expressions (A)

Simplify each expression.

$$1. (-7g^2 + 6g - 8) - (5g^2 - 2g + 4)$$

$$2. (7b^2 + 3b + 7) + (3b^2 - 6b - 8)$$

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

$$4. (6v^2 - v - 1) + (-4v^2 - 9v + 9)$$

$$5. (4p^2 + 2p + 9) + (-5p^2 - 5p - 2)$$

$$6. (-9f^2 - f - 7) + (6f^2 + f - 5)$$

$$7. (8q^2 - 7q - 1) + (-6q^2 + 8q + 7)$$

$$8. (-8c^2 - 9c + 9) + (-5c^2 - 8c - 6)$$

$$9. (9r^2 - 5r - 7) + (8r^2 + 8r + 6)$$

$$10. (4k^2 - 9k - 8) + (-3k^2 + 8k + 2)$$

Adding & Subtracting Quadratic Expressions (A) Answers

Simplify each expression.

$$1. (-7g^2 + 6g - 8) - (5g^2 - 2g + 4)$$

$$\textcolor{red}{-12g^2 + 8g - 12}$$

$$2. (7b^2 + 3b + 7) + (3b^2 - 6b - 8)$$

$$\textcolor{red}{10b^2 - 3b - 1}$$

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

$$\textcolor{red}{7k^2 - k + 17}$$

$$4. (6v^2 - v - 1) + (-4v^2 - 9v + 9)$$

$$\textcolor{red}{2v^2 - 10v + 8}$$

$$5. (4p^2 + 2p + 9) + (-5p^2 - 5p - 2)$$

$$\textcolor{red}{-p^2 - 3p + 7}$$

$$6. (-9f^2 - f - 7) + (6f^2 + f - 5)$$

$$\textcolor{red}{-3f^2 - 12}$$

$$7. (8q^2 - 7q - 1) + (-6q^2 + 8q + 7)$$

$$\textcolor{red}{2q^2 + q + 6}$$

$$8. (-8c^2 - 9c + 9) + (-5c^2 - 8c - 6)$$

$$\textcolor{red}{-13c^2 - 17c + 3}$$

$$9. (9r^2 - 5r - 7) + (8r^2 + 8r + 6)$$

$$\textcolor{red}{17r^2 + 3r - 1}$$

$$10. (4k^2 - 9k - 8) + (-3k^2 + 8k + 2)$$

$$\textcolor{red}{k^2 - k - 6}$$

Adding & Subtracting Quadratic Expressions (B)

Simplify each expression.

$$1. (-3w^2 + 5w - 2) + (-9w^2 + 4w + 5)$$

$$2. (9z^2 + 9z + 6) + (z^2 + 4z + 7)$$

$$3. (-5g^2 + 9g - 3) + (2g^2 - 6g + 3)$$

$$4. (3q^2 + 6q - 2) - (-3q^2 - 8q + 2)$$

$$5. (-4z^2 + 4z + 7) - (-9z^2 + z - 7)$$

$$6. (6w^2 + 9w + 9) - (7w^2 + 6w + 5)$$

$$7. (5p^2 - 3p + 3) - (-3p^2 + 5p + 7)$$

$$8. (2q^2 + 8q + 5) - (-5q^2 + 8)$$

$$9. (-2t^2 - t - 2) - (8t^2 + 6t - 3)$$

$$10. (9r^2 - 6r + 1) - (-6r^2 + 2r - 1)$$

Adding & Subtracting Quadratic Expressions (B) Answers

Simplify each expression.

$$1. (-3w^2 + 5w - 2) + (-9w^2 + 4w + 5)$$

$$\textcolor{red}{-12w^2 + 9w + 3}$$

$$2. (9z^2 + 9z + 6) + (z^2 + 4z + 7)$$

$$\textcolor{red}{10z^2 + 13z + 13}$$

$$3. (-5g^2 + 9g - 3) + (2g^2 - 6g + 3)$$

$$\textcolor{red}{-3g^2 + 3g}$$

$$4. (3q^2 + 6q - 2) - (-3q^2 - 8q + 2)$$

$$\textcolor{red}{6q^2 + 14q - 4}$$

$$5. (-4z^2 + 4z + 7) - (-9z^2 + z - 7)$$

$$\textcolor{red}{5z^2 + 3z + 14}$$

$$6. (6w^2 + 9w + 9) - (7w^2 + 6w + 5)$$

$$\textcolor{red}{-w^2 + 3w + 4}$$

$$7. (5p^2 - 3p + 3) - (-3p^2 + 5p + 7)$$

$$\textcolor{red}{8p^2 - 8p - 4}$$

$$8. (2q^2 + 8q + 5) - (-5q^2 + 8)$$

$$\textcolor{red}{7q^2 + 8q - 3}$$

$$9. (-2t^2 - t - 2) - (8t^2 + 6t - 3)$$

$$\textcolor{red}{-10t^2 - 7t + 1}$$

$$10. (9r^2 - 6r + 1) - (-6r^2 + 2r - 1)$$

$$\textcolor{red}{15r^2 - 8r + 2}$$

Adding & Subtracting Quadratic Expressions (C)

Simplify each expression.

$$1. (2s^2 + 9s + 5) + (5s^2 + 7s + 7)$$

$$2. (-6b^2 + 2b - 7) + (6b^2 - b + 5)$$

$$3. (9y^2 + 6y - 3) - (3y^2 + y + 8)$$

$$4. (-5h^2 + 9h + 1) - (-8h^2 - 8)$$

$$5. (5n^2 - 5n - 1) + (-4n^2 - n - 7)$$

$$6. (6d^2 - 3d + 2) + (d^2 - 4d - 4)$$

$$7. (-6y^2 + 9y - 2) - (9y^2 + 3y - 3)$$

$$8. (-6n^2 + 6n + 8) + (7n^2 + n - 2)$$

$$9. (v^2 + 6v - 2) - (-9v^2 + 4v - 9)$$

$$10. (-2f^2 - 4f - 7) + (6f^2 - 3f + 8)$$

Adding & Subtracting Quadratic Expressions (C) Answers

Simplify each expression.

1. $(2s^2 + 9s + 5) + (5s^2 + 7s + 7)$

$7s^2 + 16s + 12$

2. $(-6b^2 + 2b - 7) + (6b^2 - b + 5)$

$b - 2$

3. $(9y^2 + 6y - 3) - (3y^2 + y + 8)$

$6y^2 + 5y - 11$

4. $(-5h^2 + 9h + 1) - (-8h^2 - 8)$

$3h^2 + 9h + 9$

5. $(5n^2 - 5n - 1) + (-4n^2 - n - 7)$

$n^2 - 6n - 8$

6. $(6d^2 - 3d + 2) + (d^2 - 4d - 4)$

$7d^2 - 7d - 2$

7. $(-6y^2 + 9y - 2) - (9y^2 + 3y - 3)$

$-15y^2 + 6y + 1$

8. $(-6n^2 + 6n + 8) + (7n^2 + n - 2)$

$n^2 + 7n + 6$

9. $(v^2 + 6v - 2) - (-9v^2 + 4v - 9)$

$10v^2 + 2v + 7$

10. $(-2f^2 - 4f - 7) + (6f^2 - 3f + 8)$

$4f^2 - 7f + 1$

Adding & Subtracting Quadratic Expressions (D)

Simplify each expression.

$$1. (2h^2 - 5h - 8) - (-2h^2 - 7h - 8)$$

$$2. (-7q^2 - 3q + 9) + (6q^2 + q - 3)$$

$$3. (3p^2 + 5p - 9) + (5p^2 - 7p - 1)$$

$$4. (-2z^2 - 5z + 6) + (3z^2 - 2z + 6)$$

$$5. (-k^2 - 7k - 4) + (-9k^2 + 7k + 9)$$

$$6. (2w^2 - 3w - 2) + (w^2 - w + 9)$$

$$7. (q^2 - 3q + 4) - (9q^2 - 6q - 9)$$

$$8. (9y^2 + 8y - 7) + (-7y^2 + y - 9)$$

$$9. (9m^2 + m + 4) - (-8m^2 - 9m + 2)$$

$$10. (-2c^2 - c - 4) - (8c^2 - 8c + 2)$$

Adding & Subtracting Quadratic Expressions (D) Answers

Simplify each expression.

$$1. (2h^2 - 5h - 8) - (-2h^2 - 7h - 8)$$

$$\textcolor{red}{4h^2 + 2h}$$

$$2. (-7q^2 - 3q + 9) + (6q^2 + q - 3)$$

$$\textcolor{red}{-q^2 - 2q + 6}$$

$$3. (3p^2 + 5p - 9) + (5p^2 - 7p - 1)$$

$$\textcolor{red}{8p^2 - 2p - 10}$$

$$4. (-2z^2 - 5z + 6) + (3z^2 - 2z + 6)$$

$$\textcolor{red}{z^2 - 7z + 12}$$

$$5. (-k^2 - 7k - 4) + (-9k^2 + 7k + 9)$$

$$\textcolor{red}{-10k^2 + 5}$$

$$6. (2w^2 - 3w - 2) + (w^2 - w + 9)$$

$$\textcolor{red}{3w^2 - 4w + 7}$$

$$7. (q^2 - 3q + 4) - (9q^2 - 6q - 9)$$

$$\textcolor{red}{-8q^2 + 3q + 13}$$

$$8. (9y^2 + 8y - 7) + (-7y^2 + y - 9)$$

$$\textcolor{red}{2y^2 + 9y - 16}$$

$$9. (9m^2 + m + 4) - (-8m^2 - 9m + 2)$$

$$\textcolor{red}{17m^2 + 10m + 2}$$

$$10. (-2c^2 - c - 4) - (8c^2 - 8c + 2)$$

$$\textcolor{red}{-10c^2 + 7c - 6}$$

Adding & Subtracting Quadratic Expressions (E)

Simplify each expression.

$$1. (4n^2 - 4n + 7) - (n^2 - 2n + 3)$$

$$2. (-z^2 + 8z + 4) + (-8z^2 + 6)$$

$$3. (7q^2 + 2q - 6) + (9q^2 - 2q + 7)$$

$$4. (p^2 - 3p - 6) + (-8p^2 + 4p - 3)$$

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

$$6. (6d^2 - 7d + 3) - (4d^2 - 2d + 7)$$

$$7. (6n^2 - 9n) + (4n^2 + 7n + 7)$$

$$8. (-2v^2 + 6v - 3) - (2v^2 + 7v + 7)$$

$$9. (-7t^2 - t + 8) - (t^2 + 2t - 9)$$

$$10. (-7y^2 + y - 3) - (-3y^2 - 6y - 4)$$

Adding & Subtracting Quadratic Expressions (E) Answers

Simplify each expression.

$$1. (4n^2 - 4n + 7) - (n^2 - 2n + 3)$$

$$\textcolor{red}{3n^2 - 2n + 4}$$

$$2. (-z^2 + 8z + 4) + (-8z^2 + 6)$$

$$\textcolor{red}{-9z^2 + 8z + 10}$$

$$3. (7q^2 + 2q - 6) + (9q^2 - 2q + 7)$$

$$\textcolor{red}{16q^2 + 1}$$

$$4. (p^2 - 3p - 6) + (-8p^2 + 4p - 3)$$

$$\textcolor{red}{-7p^2 + p - 9}$$

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

$$\textcolor{red}{15f^2 - 9f + 2}$$

$$6. (6d^2 - 7d + 3) - (4d^2 - 2d + 7)$$

$$\textcolor{red}{2d^2 - 5d - 4}$$

$$7. (6n^2 - 9n) + (4n^2 + 7n + 7)$$

$$\textcolor{red}{10n^2 - 2n + 7}$$

$$8. (-2v^2 + 6v - 3) - (2v^2 + 7v + 7)$$

$$\textcolor{red}{-4v^2 - v - 10}$$

$$9. (-7t^2 - t + 8) - (t^2 + 2t - 9)$$

$$\textcolor{red}{-8t^2 - 3t + 17}$$

$$10. (-7y^2 + y - 3) - (-3y^2 - 6y - 4)$$

$$\textcolor{red}{-4y^2 + 7y + 1}$$

Adding & Subtracting Quadratic Expressions (F)

Simplify each expression.

$$1. (-5g^2 + 5g + 8) + (-4g^2 + 5g + 2)$$

$$2. (6q^2 - 8q + 8) + (8q^2 + 3q + 3)$$

$$3. (6z^2 - 8z + 1) + (-7z^2 - 7z + 2)$$

$$4. (6c^2 + 3c + 4) - (5c^2 + 9c - 5)$$

$$5. (-8t^2 - 4t - 6) - (-3t^2 - 2t - 5)$$

$$6. (-3q^2 + 9q - 4) - (9q + 4)$$

$$7. (8k^2 + 2k - 9) - (-9k^2 + 4k - 2)$$

$$8. (9z^2 - 6z + 7) + (-8z^2 + 5z - 5)$$

$$9. (2x^2 + 3x - 7) + (-4x^2 + 7x - 1)$$

$$10. (-3b^2 + 5b - 7) + (-9b^2 - 4b - 9)$$

Adding & Subtracting Quadratic Expressions (F) Answers

Simplify each expression.

$$1. (-5g^2 + 5g + 8) + (-4g^2 + 5g + 2)$$

$$\textcolor{red}{-9g^2 + 10g + 10}$$

$$2. (6q^2 - 8q + 8) + (8q^2 + 3q + 3)$$

$$\textcolor{red}{14q^2 - 5q + 11}$$

$$3. (6z^2 - 8z + 1) + (-7z^2 - 7z + 2)$$

$$\textcolor{red}{-z^2 - 15z + 3}$$

$$4. (6c^2 + 3c + 4) - (5c^2 + 9c - 5)$$

$$\textcolor{red}{c^2 - 6c + 9}$$

$$5. (-8t^2 - 4t - 6) - (-3t^2 - 2t - 5)$$

$$\textcolor{red}{-5t^2 - 2t - 1}$$

$$6. (-3q^2 + 9q - 4) - (9q + 4)$$

$$\textcolor{red}{-3q^2 - 8}$$

$$7. (8k^2 + 2k - 9) - (-9k^2 + 4k - 2)$$

$$\textcolor{red}{17k^2 - 2k - 7}$$

$$8. (9z^2 - 6z + 7) + (-8z^2 + 5z - 5)$$

$$\textcolor{red}{z^2 - z + 2}$$

$$9. (2x^2 + 3x - 7) + (-4x^2 + 7x - 1)$$

$$\textcolor{red}{-2x^2 + 10x - 8}$$

$$10. (-3b^2 + 5b - 7) + (-9b^2 - 4b - 9)$$

$$\textcolor{red}{-12b^2 + b - 16}$$

Adding & Subtracting Quadratic Expressions (G)

Simplify each expression.

$$1. (-2b^2 + 9b + 3) + (-b + 4)$$

$$2. (6x^2 - x - 6) - (4x^2 - 9x - 9)$$

$$3. (-5b^2 - 4b + 6) + (6b^2 + 9b - 5)$$

$$4. (7c^2 + 4c + 8) + (5c^2 + 2c + 2)$$

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

$$6. (-6q^2 - 2q + 6) + (-4q^2 + 2q + 8)$$

$$7. (-7g^2 + 2g - 5) + (-3g^2 - 3g + 7)$$

$$8. (-6s^2 + 2s - 1) - (5s^2 + 6s - 3)$$

$$9. (-4s^2 - 7s - 7) + (6s^2 - s + 1)$$

$$10. (2c^2 - 5c + 1) + (9c^2 + 8c - 5)$$

Adding & Subtracting Quadratic Expressions (G) Answers

Simplify each expression.

$$1. (-2b^2 + 9b + 3) + (-b + 4)$$

$$\textcolor{red}{-2b^2 + 8b + 7}$$

$$2. (6x^2 - x - 6) - (4x^2 - 9x - 9)$$

$$\textcolor{red}{2x^2 + 8x + 3}$$

$$3. (-5b^2 - 4b + 6) + (6b^2 + 9b - 5)$$

$$\textcolor{red}{b^2 + 5b + 1}$$

$$4. (7c^2 + 4c + 8) + (5c^2 + 2c + 2)$$

$$\textcolor{red}{12c^2 + 6c + 10}$$

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

$$\textcolor{red}{10d^2 + 8d + 1}$$

$$6. (-6q^2 - 2q + 6) + (-4q^2 + 2q + 8)$$

$$\textcolor{red}{-10q^2 + 14}$$

$$7. (-7g^2 + 2g - 5) + (-3g^2 - 3g + 7)$$

$$\textcolor{red}{-10g^2 - g + 2}$$

$$8. (-6s^2 + 2s - 1) - (5s^2 + 6s - 3)$$

$$\textcolor{red}{-11s^2 - 4s + 2}$$

$$9. (-4s^2 - 7s - 7) + (6s^2 - s + 1)$$

$$\textcolor{red}{2s^2 - 8s - 6}$$

$$10. (2c^2 - 5c + 1) + (9c^2 + 8c - 5)$$

$$\textcolor{red}{11c^2 + 3c - 4}$$

Adding & Subtracting Quadratic Expressions (H)

Simplify each expression.

$$1. (-8z^2 + 5z) - (-2z^2 + 6z + 3)$$

$$2. (-6m^2 + 6m) + (-7m^2 + 9m + 2)$$

$$3. (-3r^2 + 7r + 8) + (9r^2 - r + 4)$$

$$4. (9m^2 - 3m + 3) - (9m^2 + 8m + 9)$$

$$5. (9m^2 - 3m + 9) + (-8m^2 + 9m - 1)$$

$$6. (4z^2 - 3z + 1) - (5z^2 - 5z + 5)$$

$$7. (-8m + 3) + (-9m^2 + 5m - 9)$$

$$8. (-s^2 - 3s - 8) - (-4s^2 - 4s + 4)$$

$$9. (4p^2 + p + 8) + (p^2 - 4p - 5)$$

$$10. (4w^2 + 6w + 5) - (3w^2 - w + 5)$$

Adding & Subtracting Quadratic Expressions (H) Answers

Simplify each expression.

$$1. (-8z^2 + 5z) - (-2z^2 + 6z + 3)$$

$$\textcolor{red}{-6z^2 - z - 3}$$

$$2. (-6m^2 + 6m) + (-7m^2 + 9m + 2)$$

$$\textcolor{red}{-13m^2 + 15m + 2}$$

$$3. (-3r^2 + 7r + 8) + (9r^2 - r + 4)$$

$$\textcolor{red}{6r^2 + 6r + 12}$$

$$4. (9m^2 - 3m + 3) - (9m^2 + 8m + 9)$$

$$\textcolor{red}{-11m - 6}$$

$$5. (9m^2 - 3m + 9) + (-8m^2 + 9m - 1)$$

$$\textcolor{red}{m^2 + 6m + 8}$$

$$6. (4z^2 - 3z + 1) - (5z^2 - 5z + 5)$$

$$\textcolor{red}{-z^2 + 2z - 4}$$

$$7. (-8m + 3) + (-9m^2 + 5m - 9)$$

$$\textcolor{red}{-9m^2 - 3m - 6}$$

$$8. (-s^2 - 3s - 8) - (-4s^2 - 4s + 4)$$

$$\textcolor{red}{3s^2 + s - 12}$$

$$9. (4p^2 + p + 8) + (p^2 - 4p - 5)$$

$$\textcolor{red}{5p^2 - 3p + 3}$$

$$10. (4w^2 + 6w + 5) - (3w^2 - w + 5)$$

$$\textcolor{red}{w^2 + 7w}$$

Adding & Subtracting Quadratic Expressions (I)

Simplify each expression.

$$1. (-4y^2 + 8y + 6) - (-4y^2 + 6y + 3)$$

$$2. (4t^2 - 3t - 4) + (-2t^2 + 4t - 6)$$

$$3. (2k^2 + 2k - 6) + (-5k^2 - k - 8)$$

$$4. (3d^2 + 9d - 6) - (-6d^2 - 3d - 6)$$

$$5. (-3z^2 - 7z + 3) + (-9z^2 - 7z + 5)$$

$$6. (-4t^2 - 6t + 2) - (2t^2 - 2t - 2)$$

$$7. (4w^2 - 5w + 4) + (5w^2 + 5w - 3)$$

$$8. (-9z^2 + z - 9) - (8z^2 + 7z - 6)$$

$$9. (-7v^2 - 8v - 1) - (4v^2 - 7v + 2)$$

$$10. (6f^2 - 5f - 1) + (-7f^2 + 9f - 6)$$

Adding & Subtracting Quadratic Expressions (I) Answers

Simplify each expression.

$$1. (-4y^2 + 8y + 6) - (-4y^2 + 6y + 3)$$

$$\textcolor{red}{2y + 3}$$

$$2. (4t^2 - 3t - 4) + (-2t^2 + 4t - 6)$$

$$\textcolor{red}{2t^2 + t - 10}$$

$$3. (2k^2 + 2k - 6) + (-5k^2 - k - 8)$$

$$\textcolor{red}{-3k^2 + k - 14}$$

$$4. (3d^2 + 9d - 6) - (-6d^2 - 3d - 6)$$

$$\textcolor{red}{9d^2 + 12d}$$

$$5. (-3z^2 - 7z + 3) + (-9z^2 - 7z + 5)$$

$$\textcolor{red}{-12z^2 - 14z + 8}$$

$$6. (-4t^2 - 6t + 2) - (2t^2 - 2t - 2)$$

$$\textcolor{red}{-6t^2 - 4t + 4}$$

$$7. (4w^2 - 5w + 4) + (5w^2 + 5w - 3)$$

$$\textcolor{red}{9w^2 + 1}$$

$$8. (-9z^2 + z - 9) - (8z^2 + 7z - 6)$$

$$\textcolor{red}{-17z^2 - 6z - 3}$$

$$9. (-7v^2 - 8v - 1) - (4v^2 - 7v + 2)$$

$$\textcolor{red}{-11v^2 - v - 3}$$

$$10. (6f^2 - 5f - 1) + (-7f^2 + 9f - 6)$$

$$\textcolor{red}{-f^2 + 4f - 7}$$

Adding & Subtracting Quadratic Expressions (J)

Simplify each expression.

$$1. (8b^2 + 3b - 6) + (7b^2 - 5b - 1)$$

$$2. (-2n^2 - 9n - 7) - (-3n^2 - n - 6)$$

$$3. (-2a^2 + a - 9) - (-6a^2 + 2a + 1)$$

$$4. (-4y^2 - 4y + 2) - (-5y^2 + 2y - 4)$$

$$5. (5w^2 + 3w - 2) + (5w^2 - 5w + 6)$$

$$6. (-5h^2 + 2h - 9) + (8h^2 + 2h + 6)$$

$$7. (-4c^2 + 2c + 3) - (-3c^2 - 2c - 5)$$

$$8. (-7m^2 + 2m + 1) + (4m^2 + 7m + 9)$$

$$9. (-8s^2 + 5s - 1) + (2s^2 - 3s + 3)$$

$$10. (-3h^2 + 3h - 9) + (-3h^2 + 6h - 9)$$

Adding & Subtracting Quadratic Expressions (J) Answers

Simplify each expression.

$$1. (8b^2 + 3b - 6) + (7b^2 - 5b - 1)$$

$$\textcolor{red}{15b^2 - 2b - 7}$$

$$2. (-2n^2 - 9n - 7) - (-3n^2 - n - 6)$$

$$\textcolor{red}{n^2 - 8n - 1}$$

$$3. (-2a^2 + a - 9) - (-6a^2 + 2a + 1)$$

$$\textcolor{red}{4a^2 - a - 10}$$

$$4. (-4y^2 - 4y + 2) - (-5y^2 + 2y - 4)$$

$$\textcolor{red}{y^2 - 6y + 6}$$

$$5. (5w^2 + 3w - 2) + (5w^2 - 5w + 6)$$

$$\textcolor{red}{10w^2 - 2w + 4}$$

$$6. (-5h^2 + 2h - 9) + (8h^2 + 2h + 6)$$

$$\textcolor{red}{3h^2 + 4h - 3}$$

$$7. (-4c^2 + 2c + 3) - (-3c^2 - 2c - 5)$$

$$\textcolor{red}{-c^2 + 4c + 8}$$

$$8. (-7m^2 + 2m + 1) + (4m^2 + 7m + 9)$$

$$\textcolor{red}{-3m^2 + 9m + 10}$$

$$9. (-8s^2 + 5s - 1) + (2s^2 - 3s + 3)$$

$$\textcolor{red}{-6s^2 + 2s + 2}$$

$$10. (-3h^2 + 3h - 9) + (-3h^2 + 6h - 9)$$

$$\textcolor{red}{-6h^2 + 9h - 18}$$