

Subtracting Quadratic Expressions (A)

Simplify each expression.

$$1. (-8s^2 + 7s - 7) - (3s^2 - 9s + 2)$$

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

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

$$4. 7(-9n^2 + 6n + 6) - 4(-n^2 + 8n - 6)$$

$$5. -(4r^2 + 3r + 8) - 8(9r^2 + 4r + 2)$$

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

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

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

$$9. (-8g^2 - 4g + 3) - 8(3g^2 - 7g + 5)$$

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

Subtracting Quadratic Expressions (A) Answers

Simplify each expression.

$$1. (-8s^2 + 7s - 7) - (3s^2 - 9s + 2)$$

$$\textcolor{red}{-11s^2 + 16s - 9}$$

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

$$\textcolor{red}{34p^2 + 43p - 52}$$

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

$$\textcolor{red}{28v^2 - 23v - 6}$$

$$4. 7(-9n^2 + 6n + 6) - 4(-n^2 + 8n - 6)$$

$$\textcolor{red}{-59n^2 + 10n + 66}$$

$$5. -(4r^2 + 3r + 8) - 8(9r^2 + 4r + 2)$$

$$\textcolor{red}{-76r^2 - 35r - 24}$$

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

$$\textcolor{red}{-11r^2 + 16r + 8}$$

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

$$\textcolor{red}{-6k^2 - 4k - 20}$$

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

$$\textcolor{red}{3a^2 + 4a - 10}$$

$$9. (-8g^2 - 4g + 3) - 8(3g^2 - 7g + 5)$$

$$\textcolor{red}{-32g^2 + 52g - 37}$$

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

$$\textcolor{red}{53t^2 + 15t + 20}$$

Subtracting Quadratic Expressions (B)

Simplify each expression.

$$1. -9(-d^2 - 5d + 8) - (d^2 + 7d + 7)$$

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

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

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

$$5. 3(-6f^2 - 8f) - (-f^2 + 4f + 7)$$

$$6. -4(-4c^2 + 3c - 6) - 5(8c^2 + 7c - 2)$$

$$7. -6(-9h^2 + 6h + 5) - 3(-9h^2 - h)$$

$$8. 8(5v^2 + 9v - 2) - 5(-3v^2 - 4v - 5)$$

$$9. (-8t^2 - 2t - 8) - (4t^2 - 7t - 7)$$

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

Subtracting Quadratic Expressions (B) Answers

Simplify each expression.

$$1. -9(-d^2 - 5d + 8) - (d^2 + 7d + 7)$$

$$\textcolor{red}{8d^2 + 38d - 79}$$

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

$$\textcolor{red}{-15f^2 + 27f + 10}$$

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

$$\textcolor{red}{-14y^2 - 30y + 36}$$

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

$$\textcolor{red}{51h^2 + 56h - 21}$$

$$5. 3(-6f^2 - 8f) - (-f^2 + 4f + 7)$$

$$\textcolor{red}{-17f^2 - 28f - 7}$$

$$6. -4(-4c^2 + 3c - 6) - 5(8c^2 + 7c - 2)$$

$$\textcolor{red}{-24c^2 - 47c + 34}$$

$$7. -6(-9h^2 + 6h + 5) - 3(-9h^2 - h)$$

$$\textcolor{red}{81h^2 - 33h - 30}$$

$$8. 8(5v^2 + 9v - 2) - 5(-3v^2 - 4v - 5)$$

$$\textcolor{red}{55v^2 + 92v + 9}$$

$$9. (-8t^2 - 2t - 8) - (4t^2 - 7t - 7)$$

$$\textcolor{red}{-12t^2 + 5t - 1}$$

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

$$\textcolor{red}{19r^2 + 26r + 12}$$

Subtracting Quadratic Expressions (C)

Simplify each expression.

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

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

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

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

$$5. (2h^2 + 2h + 4) - 9(8h^2 + 5h - 3)$$

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

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

$$8. (-9y^2 + 7y + 1) - 9(-4y^2 - 5y + 3)$$

$$9. (-8k^2 - 6k - 5) - (-2k^2 - 7k - 3)$$

$$10. -4(-9a^2 + 4a - 2) - 9(-5a^2 - 8a - 9)$$

Subtracting Quadratic Expressions (C) Answers

Simplify each expression.

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

$$\textcolor{red}{-11h^2 + 12h - 10}$$

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

$$\textcolor{red}{-26b^2 + 16b + 40}$$

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

$$\textcolor{red}{-12t^2 - 16t - 32}$$

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

$$\textcolor{red}{-12t^2 - 3t + 7}$$

$$5. (2h^2 + 2h + 4) - 9(8h^2 + 5h - 3)$$

$$\textcolor{red}{-70h^2 - 43h + 31}$$

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

$$\textcolor{red}{21f^2 + 33f + 17}$$

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

$$\textcolor{red}{-14y^2 + 15y + 17}$$

$$8. (-9y^2 + 7y + 1) - 9(-4y^2 - 5y + 3)$$

$$\textcolor{red}{27y^2 + 52y - 26}$$

$$9. (-8k^2 - 6k - 5) - (-2k^2 - 7k - 3)$$

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

$$10. -4(-9a^2 + 4a - 2) - 9(-5a^2 - 8a - 9)$$

$$\textcolor{red}{81a^2 + 56a + 89}$$

Subtracting Quadratic Expressions (D)

Simplify each expression.

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

$$2. -5(7g^2 + g - 3) - 9(6g^2 + 7g - 8)$$

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

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

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

$$6. 3(9k^2 - 5k - 2) - 5(-9k^2 - k - 1)$$

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

$$8. 7(-9f^2 + 5f - 6) - 5(8f^2 + 3f - 9)$$

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

$$10. -(-9q^2 + 8q + 8) - (-9q^2 - 5q + 7)$$

Subtracting Quadratic Expressions (D) Answers

Simplify each expression.

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

$$\textcolor{red}{16q^2 - 10q + 2}$$

$$2. -5(7g^2 + g - 3) - 9(6g^2 + 7g - 8)$$

$$\textcolor{red}{-89g^2 - 68g + 87}$$

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

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

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

$$\textcolor{red}{10t^2 + 8t + 2}$$

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

$$\textcolor{red}{-6b^2 + 4b - 9}$$

$$6. 3(9k^2 - 5k - 2) - 5(-9k^2 - k - 1)$$

$$\textcolor{red}{72k^2 - 10k - 1}$$

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

$$\textcolor{red}{7k^2 - 3k + 24}$$

$$8. 7(-9f^2 + 5f - 6) - 5(8f^2 + 3f - 9)$$

$$\textcolor{red}{-103f^2 + 20f + 3}$$

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

$$\textcolor{red}{-28f^2 + 18f - 30}$$

$$10. -(-9q^2 + 8q + 8) - (-9q^2 - 5q + 7)$$

$$\textcolor{red}{18q^2 - 3q - 15}$$

Subtracting Quadratic Expressions (E)

Simplify each expression.

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

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

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

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

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

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

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

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

$$9. 4(9a^2 + 2a + 1) - 8(7a^2 - 8a + 6)$$

$$10. (n^2 + 4n + 2) - (-5n^2 + 9n + 2)$$

Subtracting Quadratic Expressions (E) Answers

Simplify each expression.

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

$$\textcolor{red}{-39b^2 - 56b + 36}$$

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

$$\textcolor{red}{-19c^2 + 11c - 11}$$

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

$$\textcolor{red}{7x^2 - 2x - 7}$$

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

$$\textcolor{red}{-36k + 72}$$

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

$$\textcolor{red}{21s^2 + 25s + 15}$$

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

$$\textcolor{red}{-3t^2 + 72t + 80}$$

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

$$\textcolor{red}{-13v^2 - 24v - 45}$$

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

$$\textcolor{red}{42m^2 + 35m - 31}$$

$$9. 4(9a^2 + 2a + 1) - 8(7a^2 - 8a + 6)$$

$$\textcolor{red}{-20a^2 + 72a - 44}$$

$$10. (n^2 + 4n + 2) - (-5n^2 + 9n + 2)$$

$$\textcolor{red}{6n^2 - 5n}$$

Subtracting Quadratic Expressions (F)

Simplify each expression.

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

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

$$3. (-9b^2 - 9b - 1) - 4(6b^2 + 7b + 6)$$

$$4. -7(-5g^2 + 4g - 9) - 7(5g^2 + 8g + 6)$$

$$5. (-9w^2 + 8w - 1) - 8(2w^2 + 6w - 4)$$

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

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

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

$$9. (3w^2 - 5w + 7) - 6(5w^2 - 7w + 7)$$

$$10. (-8x^2 + 8x - 2) - 5(-6x^2 + 3x + 2)$$

Subtracting Quadratic Expressions (F) Answers

Simplify each expression.

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

$$4q^2 + 4q - 1$$

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

$$53t^2 - 77t + 11$$

$$3. (-9b^2 - 9b - 1) - 4(6b^2 + 7b + 6)$$

$$-33b^2 - 37b - 25$$

$$4. -7(-5g^2 + 4g - 9) - 7(5g^2 + 8g + 6)$$

$$-84g + 21$$

$$5. (-9w^2 + 8w - 1) - 8(2w^2 + 6w - 4)$$

$$-25w^2 - 40w + 31$$

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

$$2w^2 - 9w + 6$$

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

$$-16h^2 + 65h - 54$$

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

$$58n^2 - 36n + 14$$

$$9. (3w^2 - 5w + 7) - 6(5w^2 - 7w + 7)$$

$$-27w^2 + 37w - 35$$

$$10. (-8x^2 + 8x - 2) - 5(-6x^2 + 3x + 2)$$

$$22x^2 - 7x - 12$$

Subtracting Quadratic Expressions (G)

Simplify each expression.

$$1. \ 4(-8s^2 - 8s + 6) - 2(-s^2 + s - 8)$$

$$2. \ -4(5w^2 + 5w + 6) - (-3w^2 - 8w + 2)$$

$$3. \ -7(3q^2 + 8q + 5) - (-3q^2 + 5q - 7)$$

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

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

$$6. \ (-s^2 + 5s - 9) - (5s^2 - 2s + 9)$$

$$7. \ -7(-4s^2 - 6s + 3) - 8(-s^2 + 9s + 4)$$

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

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

$$10. \ 3(-9r^2 - 6r - 8) - (-2r^2 - 2r - 6)$$

Subtracting Quadratic Expressions (G) Answers

Simplify each expression.

$$1. \ 4(-8s^2 - 8s + 6) - 2(-s^2 + s - 8)$$

$$\textcolor{red}{-30s^2 - 34s + 40}$$

$$2. \ -4(5w^2 + 5w + 6) - (-3w^2 - 8w + 2)$$

$$\textcolor{red}{-17w^2 - 12w - 26}$$

$$3. \ -7(3q^2 + 8q + 5) - (-3q^2 + 5q - 7)$$

$$\textcolor{red}{-18q^2 - 61q - 28}$$

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

$$\textcolor{red}{56c^2 - 60c - 14}$$

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

$$\textcolor{red}{-57b^2 + 50b - 37}$$

$$6. \ (-s^2 + 5s - 9) - (5s^2 - 2s + 9)$$

$$\textcolor{red}{-6s^2 + 7s - 18}$$

$$7. \ -7(-4s^2 - 6s + 3) - 8(-s^2 + 9s + 4)$$

$$\textcolor{red}{36s^2 - 30s - 53}$$

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

$$\textcolor{red}{-4x^2 - 13x + 28}$$

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

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

$$10. \ 3(-9r^2 - 6r - 8) - (-2r^2 - 2r - 6)$$

$$\textcolor{red}{-25r^2 - 16r - 18}$$

Subtracting Quadratic Expressions (H)

Simplify each expression.

$$1. (-8d^2 + 7d + 2) - 2(-7d^2 + 2d - 1)$$

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

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

$$4. (-5p^2 - 2p - 9) - 5(7p^2 + 6p + 7)$$

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

$$6. (7c^2 + 4c + 4) - 3(2c^2 + 5c + 1)$$

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

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

$$9. (8q^2 + 2q + 1) - 4(6q^2 - q - 5)$$

$$10. (-2g^2 - 5g - 7) - (-4g^2 - 6g - 7)$$

Subtracting Quadratic Expressions (H) Answers

Simplify each expression.

$$1. (-8d^2 + 7d + 2) - 2(-7d^2 + 2d - 1)$$

$$\textcolor{red}{6d^2 + 3d + 4}$$

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

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

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

$$\textcolor{red}{5c^2 - 18c - 26}$$

$$4. (-5p^2 - 2p - 9) - 5(7p^2 + 6p + 7)$$

$$\textcolor{red}{-40p^2 - 32p - 44}$$

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

$$\textcolor{red}{-55m^2 + 14m + 33}$$

$$6. (7c^2 + 4c + 4) - 3(2c^2 + 5c + 1)$$

$$\textcolor{red}{c^2 - 11c + 1}$$

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

$$\textcolor{red}{26q^2 + 20q + 9}$$

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

$$\textcolor{red}{-6p^2 - 27p}$$

$$9. (8q^2 + 2q + 1) - 4(6q^2 - q - 5)$$

$$\textcolor{red}{-16q^2 + 6q + 21}$$

$$10. (-2g^2 - 5g - 7) - (-4g^2 - 6g - 7)$$

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

Subtracting Quadratic Expressions (I)

Simplify each expression.

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

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

$$3. (-c^2 - 3c - 6) - 6(7c^2 + 6c - 2)$$

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

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

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

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

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

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

$$10. -7(-7r^2 - 7r + 5) - (-7r^2 - 2r - 7)$$

Subtracting Quadratic Expressions (I) Answers

Simplify each expression.

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

-22n² - 3n - 31

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

-15d² - 17d + 11

$$3. (-c^2 - 3c - 6) - 6(7c^2 + 6c - 2)$$

-43c² - 39c + 6

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

-28r² - 13r + 32

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

36v² - v + 41

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

-5x² + x + 9

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

27a² - 36a - 1

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

36s² + 4s + 13

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

-39t² + 33t + 31

$$10. -7(-7r^2 - 7r + 5) - (-7r^2 - 2r - 7)$$

56r² + 51r - 28

Subtracting Quadratic Expressions (J)

Simplify each expression.

$$1. \ 8(-m^2 - 6m + 5) - (6m^2 - 7m - 5)$$

$$2. \ (9d^2 + 9d + 7) - (7d^2 - 8d + 8)$$

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

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

$$5. \ (3t^2 - 2t + 5) - 3(t^2 - t - 4)$$

$$6. \ 7(7t^2 + 3t + 8) - 5(-4t^2 - 2t + 8)$$

$$7. \ 6(7p^2 + 8p + 9) - 7(-3p^2 + 3p + 8)$$

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

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

$$10. \ -8(5w^2 + 7w + 2) - 7(-w^2 + 5w - 4)$$

Subtracting Quadratic Expressions (J) Answers

Simplify each expression.

$$1. \ 8(-m^2 - 6m + 5) - (6m^2 - 7m - 5)$$

$$\textcolor{red}{-14m^2 - 41m + 45}$$

$$2. \ (9d^2 + 9d + 7) - (7d^2 - 8d + 8)$$

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

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

$$\textcolor{red}{8w^2 - 9w + 7}$$

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

$$\textcolor{red}{26z^2 + 16z + 26}$$

$$5. \ (3t^2 - 2t + 5) - 3(t^2 - t - 4)$$

$$\textcolor{red}{t + 17}$$

$$6. \ 7(7t^2 + 3t + 8) - 5(-4t^2 - 2t + 8)$$

$$\textcolor{red}{69t^2 + 31t + 16}$$

$$7. \ 6(7p^2 + 8p + 9) - 7(-3p^2 + 3p + 8)$$

$$\textcolor{red}{63p^2 + 27p - 2}$$

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

$$\textcolor{red}{26f^2 - 20f - 38}$$

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

$$\textcolor{red}{4x^2 + 6x - 10}$$

$$10. \ -8(5w^2 + 7w + 2) - 7(-w^2 + 5w - 4)$$

$$\textcolor{red}{-33w^2 - 91w + 12}$$