Adding & Subtracting Quadratic Expressions (J)

Simplify each expression.

1. $-5(-5x^2 - 6x + 6) - (6x^2 + 7x - 1)$

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

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

4. $-5(3s^2 + 8s - 1) - 8(-5s^2 + s + 2)$

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

6. $9(7a^2 - 9a - 1) + 3(8a^2 - 2a + 1)$

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

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

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

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

Simplify each expression.

1. $-5(-5x^2 - 6x + 6) - (6x^2 + 7x - 1)$
   $19x^2 + 23x - 29$

2. $-(9g^2 - 8g - 2) - (4g^2 - 7g + 3)$
   $-13g^2 + 15g - 1$

3. $(-6n^2 + 6n + 5) - (-3n^2 + n - 6)$
   $-3n^2 + 5n + 11$

4. $-5(3s^2 + 8s - 1) - 8(-5s^2 + s + 2)$
   $25s^2 - 48s - 11$

5. $8(-8n^2 - 9n - 6) - 2(-6n^2 - n - 9)$
   $-52n^2 - 70n - 30$

6. $9(7a^2 - 9a - 1) + 3(8a^2 - 2a + 1)$
   $87a^2 - 87a - 6$

7. $-5(7x^2 + 9x + 1) - (-7x^2 - 3x + 1)$
   $-28x^2 - 42x - 6$

8. $(-6g^2 - 8g + 8) - (-9g^2 - 9g + 9)$
   $3g^2 + g - 1$

9. $(-8a^2 + 8a - 3) - 5(-6a^2 - 7a - 9)$
   $22a^2 + 43a + 42$

10. $-7(-7f^2 + 4f + 4) + 7(6f^2 - 3f - 2)$
    $91f^2 - 49f - 42$