Adding & Subtracting Quadratic Expressions (A)

Simplify each expression.

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

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

3. $7(5m^2 + 1) - 9(-6m^2 - 3m - 7)$

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

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

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

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

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

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

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

Adding & Subtracting Quadratic Expressions (A) Answers

Simplify each expression.

1. $4(9p^2 - 9p + 1) + 6(-6p^2 + 4p + 9)$
   $-12p + 58$

2. $-8(6a^2 - a + 5) + 6(7a^2 + 9a - 7)$
   $-6a^2 + 62a - 82$

3. $7(5m^2 + 1) - 9(-6m^2 - 3m - 7)$
   $89m^2 + 27m + 70$

4. $-(-4h^2 - 8h + 5) + 7(-7h^2 + 2h - 8)$
   $-45h^2 + 22h - 61$

5. $9(5t + 4) + 4(-4t^2 + 6t - 5)$
   $-16t^2 + 69t + 16$

6. $5(4a^2 + 7a + 2) + 4(6a^2 - 7a - 1)$
   $44a^2 + 7a + 6$

7. $-8(2h^2 + 5h - 5) - 8(-h - 4)$
   $-16h^2 - 32h + 72$

8. $-6(-4k^2 - 7k - 2) - 9(3k^2 + 7k + 6)$
   $-3k^2 - 21k - 42$

9. $-9(-5s^2 + 9s + 8) - 6(7s^2 + 2s - 5)$
   $3s^2 - 93s - 42$

10. $8(-8z^2 - 3z - 8) - 6(z^2 - z + 6)$
    $-70z^2 - 18z - 100$