Adding Quadratic Expressions (J)

Simplify each expression.

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

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

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

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

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

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

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

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

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

10. $(-5x^2 - 5x + 6) + 6(-4x^2 - 8x - 4)$

Adding Quadratic Expressions (J) Answers

Simplify each expression.

1. $-(-5f^2 + 4f - 4) + 4(-2f^2 - 3f + 3)$
   $-3f^2 - 16f + 16$

2. $7(-4s^2 - s - 3) + 7(-4s^2 + 7s + 4)$
   $-56s^2 + 42s + 7$

3. $(3a^2 + 4a - 5) + (-6a^2 + 7a - 6)$
   $-3a^2 + 11a - 11$

4. $(-8a^2 + 6a - 5) + 4(-3a^2 - 3a + 9)$
   $-20a^2 - 6a + 31$

5. $(-9g^2 + 2g - 6) + 6(g^2 - 5g + 9)$
   $-3g^2 - 28g + 48$

6. $-4(d^2 - 3d + 2) + (5d^2 + 8d + 5)$
   $d^2 + 20d - 3$

7. $-4(4p^2 - 9p - 1) + (8p^2 + 5p - 9)$
   $-8p^2 + 41p - 5$

8. $(-5f^2 - 3f + 8) + 6(5f^2 + 5f - 8)$
   $25f^2 + 27f - 40$

9. $(-7h^2 - 7h - 5) + (-h^2 + 3h - 5)$
   $-8h^2 - 4h - 10$

10. $(-5x^2 - 5x + 6) + 6(-4x^2 - 8x - 4)$
    $-29x^2 - 53x - 18$