Adding Quadratic Expressions (C)

Simplify each expression.

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

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

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

4. $(2a^2 + a + 2) + 3(8a^2 - 7a + 1)$

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

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

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

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

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

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

Adding Quadratic Expressions (C) Answers

Simplify each expression.

1. $-6(3z^2 - 7z + 3) + (5z^2 - 9z + 5)$
   $-13z^2 + 33z - 13$

2. $-3(5b^2 - 2b - 9) + 8(-4b^2 - 7b + 3)$
   $-47b^2 - 50b + 51$

3. $(5y^2 + 6y - 9) + (-5y^2 + 6y - 7)$
   $12y - 16$

4. $(2a^2 + a + 2) + 3(8a^2 - 7a + 1)$
   $26a^2 - 20a + 5$

5. $(-5m^2 - 7m - 9) + (4m^2 - 3m - 1)$
   $-m^2 - 10m - 10$

6. $-6(-z^2 - 3) + 4(-2z^2 + 5z + 5)$
   $-2z^2 + 20z + 38$

7. $(3k^2 + 8k - 2) + 9(-9k^2 + 6k + 7)$
   $-78k^2 + 62k + 61$

8. $(-4w^2 - 7w + 6) + 7(3w^2 + 8w + 7)$
   $17w^2 + 49w + 55$

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

10. $(7t^2 - 8t - 5) + 9(t^2 - 8t + 8)$
    $16t^2 - 80t + 67$