Adding Quadratic Expressions (H)

Simplify each expression.

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

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

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

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

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

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

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

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

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

10. $(-5n^2 + 4n + 7) + (-4n^2 + 7n + 5)$

Adding Quadratic Expressions (H) Answers

Simplify each expression.

1. $-4(z^2 - 4z - 6) + 6(-z^2 + 6z - 9)$
   $-10z^2 + 52z - 30$

2. $8(-9n^2 + 7n + 4) + 4(2n^2 - 9n + 7)$
   $-64n^2 + 20n + 60$

3. $(4r^2 + 7r) + 4(-2r^2 + 2r + 6)$
   $-4r^2 + 15r + 24$

4. $9(-7p^2 + 7p - 7) + (-3p^2 - p + 5)$
   $-66p^2 + 62p - 58$

5. $-6(7b^2 - b - 3) + (3b^2 + 4b - 2)$
   $-39b^2 + 10b + 16$

6. $(8z^2 + 4z - 7) + 6(z^2 - 4z + 7)$
   $14z^2 - 20z + 35$

7. $-5(-8y^2 - 9y - 6) + (2y^2 - 9y - 5)$
   $42y^2 + 36y + 25$

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

9. $5(-3g^2 - 8g + 5) + (2g^2 + 7g - 7)$
   $-13g^2 - 33g + 18$

10. $(-5n^2 + 4n + 7) + (-4n^2 + 7n + 5)$
    $-9n^2 + 11n + 12$

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