Adding & Subtracting Quadratic Expressions (D)

Simplify each expression.

1. $(-8y^2 - 2y - 6) - 8(-6y^2 - 3y - 5)$

2. $(4y^2 + y - 1) + 2(y^2 + 4y + 2)$

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

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

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

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

7. $-2(-7t + 1) + (-2t^2 + 4t + 2)$

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

9. $(c^2 - 4c + 6) - (4c^2 - 4c + 8)$

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

Adding & Subtracting Quadratic Expressions (D) Answers

Simplify each expression.

1. $(-8y^2 - 2y - 6) - 8(-6y^2 - 3y - 5)$
   $40y^2 + 22y + 34$

2. $(4y^2 + y - 1) + 2(y^2 + 4y + 2)$
   $6y^2 + 9y + 3$

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

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

5. $-9(-5g^2 + 5g - 7) + 9(4g^2 - 3g - 9)$
   $81g^2 - 72g - 18$

6. $(2p^2 - 4p + 7) - (3p^2 - 3p - 5)$
   $-p^2 - p + 12$

7. $-2(-7t + 1) + (-2t^2 + 4t + 2)$
   $-2t^2 + 18t$

8. $(6t^2 - 9t - 7) + 6(6t^2 + 8)$
   $42t^2 - 9t + 41$

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

10. $(-5n^2 + 2n + 6) + 4(6n - 4)$
    $-5n^2 + 26n - 10$