

# Subtracting Quadratic Expressions (G)

Simplify each expression.

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

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

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

4.  $-9(b^2 + 2b + 7) - 9(6b^2 - 6b - 9)$

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

6.  $-6(-8t^2 + 5t - 1) - 6(9t^2 + 8t - 4)$

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

8.  $-4(5h^2 + 3h + 1) - 9(-2h^2 - 8h + 6)$

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

10.  $5(7t^2 - 9t + 5) - 4(9t^2 - 8t + 1)$

# Subtracting Quadratic Expressions (G) Answers

Simplify each expression.

1.  $-7(6y^2 - y + 7) - 4(-7y^2 - 2y - 4)$   
 $-14y^2 + 15y - 33$

2.  $-3(-4c^2 + c + 9) - 3(3c^2 + 7c + 3)$   
 $3c^2 - 24c - 36$

3.  $-3(-2r^2 - 3r + 4) - 5(-5r^2 - 9r - 6)$   
 $31r^2 + 54r + 18$

4.  $-9(b^2 + 2b + 7) - 9(6b^2 - 6b - 9)$   
 $-63b^2 + 36b + 18$

5.  $-(-5n^2 - 8n + 2) - 7(3n^2 - 5n - 3)$   
 $-16n^2 + 43n + 19$

6.  $-6(-8t^2 + 5t - 1) - 6(9t^2 + 8t - 4)$   
 $-6t^2 - 78t + 30$

7.  $-4(8w^2 - 5w - 9) - 3(w^2 - 7w + 9)$   
 $-35w^2 + 41w + 9$

8.  $-4(5h^2 + 3h + 1) - 9(-2h^2 - 8h + 6)$   
 $-2h^2 + 60h - 58$

9.  $-(-8y^2 - 7y - 2) - 5(-2y^2 - 2y - 2)$   
 $18y^2 + 17y + 12$

10.  $5(7t^2 - 9t + 5) - 4(9t^2 - 8t + 1)$   
 $-t^2 - 13t + 21$