

# Subtracting Quadratic Expressions (H)

Simplify each expression.

1.  $-3(5s^2 + s + 4) - 5(3s^2 - 8s - 4)$

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

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

4.  $5(-2p^2 - 2p - 9) - 7(6p^2 - 4p - 7)$

5.  $-9(8r^2 + 7r + 6) - 3(8r^2 - 7r + 7)$

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

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

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

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

10.  $4(-5y^2 - 5y - 1) - 3(7y^2 + 3y - 8)$

# Subtracting Quadratic Expressions (H) Answers

Simplify each expression.

1.  $-3(5s^2 + s + 4) - 5(3s^2 - 8s - 4)$   
 $-30s^2 + 37s + 8$

2.  $-5(8r^2 - 5r + 5) - 8(r^2 + 9r - 7)$   
 $-48r^2 - 47r + 31$

3.  $9(-6h^2 - 3h - 5) - 6(-9h^2 - 3h + 4)$   
 $-9h - 69$

4.  $5(-2p^2 - 2p - 9) - 7(6p^2 - 4p - 7)$   
 $-52p^2 + 18p + 4$

5.  $-9(8r^2 + 7r + 6) - 3(8r^2 - 7r + 7)$   
 $-96r^2 - 42r - 75$

6.  $2(-6h^2 - 3h + 7) - 8(6h^2 - 3h + 8)$   
 $-60h^2 + 18h - 50$

7.  $2(4p^2 + 4p + 9) - 8(9p^2 - 5p + 1)$   
 $-64p^2 + 48p + 10$

8.  $-7(-7t^2 - 5t + 2) - 4(8t^2 - 8t + 8)$   
 $17t^2 + 67t - 46$

9.  $8(8c^2 + 6c - 7) - 6(-8c^2 + 8c - 8)$   
 $112c^2 - 8$

10.  $4(-5y^2 - 5y - 1) - 3(7y^2 + 3y - 8)$   
 $-41y^2 - 29y + 20$