

# Subtracting Quadratic Expressions (I)

Simplify each expression.

1.  $(2n^2 - 9n - 4) - 3(8n^2 - 2n + 9)$

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

3.  $(-c^2 - 3c - 6) - 6(7c^2 + 6c - 2)$

4.  $(-4r^2 - 4r + 8) - 3(8r^2 + 3r - 8)$

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

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

7.  $-2(-3a^2 + 9a - 4) - 3(-7a^2 + 6a + 3)$

8.  $-6(-7s^2 - s - 2) - (6s^2 + 2s - 1)$

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

10.  $-7(-7r^2 - 7r + 5) - (-7r^2 - 2r - 7)$

# Subtracting Quadratic Expressions (I) Answers

Simplify each expression.

1.  $(2n^2 - 9n - 4) - 3(8n^2 - 2n + 9)$   
 $-22n^2 - 3n - 31$

2.  $(9d^2 - 5d + 2) - 3(8d^2 + 4d - 3)$   
 $-15d^2 - 17d + 11$

3.  $(-c^2 - 3c - 6) - 6(7c^2 + 6c - 2)$   
 $-43c^2 - 39c + 6$

4.  $(-4r^2 - 4r + 8) - 3(8r^2 + 3r - 8)$   
 $-28r^2 - 13r + 32$

5.  $-4(5v^2 + 2v + 2) - 7(-8v^2 - v - 7)$   
 $36v^2 - v + 41$

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

7.  $-2(-3a^2 + 9a - 4) - 3(-7a^2 + 6a + 3)$   
 $27a^2 - 36a - 1$

8.  $-6(-7s^2 - s - 2) - (6s^2 + 2s - 1)$   
 $36s^2 + 4s + 13$

9.  $(t^2 - 7t + 6) - 5(8t^2 - 8t - 5)$   
 $-39t^2 + 33t + 31$

10.  $-7(-7r^2 - 7r + 5) - (-7r^2 - 2r - 7)$   
 $56r^2 + 51r - 28$