

# Adding & Subtracting Quadratic Expressions (C)

Simplify each expression.

1.  $-6(-8t^2 - 9t - 2) + 4(7t^2 - 8t + 2)$

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

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

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

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

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

7.  $-(7v^2 + 7v - 2) + 5(9v^2 - 5v + 1)$

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

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

10.  $2(5r^2 - 5r + 2) + 5(-2r^2 - 2r + 3)$

# Adding & Subtracting Quadratic Expressions (C) Answers

Simplify each expression.

1.  $-6(-8t^2 - 9t - 2) + 4(7t^2 - 8t + 2)$   
 $76t^2 + 22t + 20$

2.  $9(4p^2 - 7p - 2) - 3(3p^2 - 3p + 8)$   
 $27p^2 - 54p - 42$

3.  $-8(-6p^2 + 2p + 6) - 4(9p^2 - 2p + 8)$   
 $12p^2 - 8p - 80$

4.  $2(9q^2 + 2q - 3) - 5(3q^2 + 3q - 4)$   
 $3q^2 - 11q + 14$

5.  $-2(7x^2 - 8x - 4) - 7(-2x^2 + 7x + 6)$   
 $-33x - 34$

6.  $-5(9q - 8) - 9(-q^2 + q - 1)$   
 $9q^2 - 54q + 49$

7.  $-(7v^2 + 7v - 2) + 5(9v^2 - 5v + 1)$   
 $38v^2 - 32v + 7$

8.  $-3(-6c^2 + 4c + 2) - 9(-3c^2 - 9c - 6)$   
 $45c^2 + 69c + 48$

9.  $6(-q^2 - 5q - 4) - 3(q^2 + 6q + 9)$   
 $-9q^2 - 48q - 51$

10.  $2(5r^2 - 5r + 2) + 5(-2r^2 - 2r + 3)$   
 $-20r + 19$