

# Adding & Subtracting Quadratic Expressions (G)

Simplify each expression.

1.  $-(2v^2 + 3v + 3) + 7(6v^2 - 6v - 9)$

2.  $5(7m^2 + 9m - 1) - 7(-9m^2 - 6m - 1)$

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

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

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

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

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

8.  $-7(h^2 - h) - 8(-9h^2 - 4h - 8)$

9.  $4(-7v^2 - 2v - 6) - 2(2v^2 - 7v - 1)$

10.  $-5(-8k^2 + k + 6) - 3(7k^2 + k + 8)$

# Adding & Subtracting Quadratic Expressions (G) Answers

Simplify each expression.

1.  $-(2v^2 + 3v + 3) + 7(6v^2 - 6v - 9)$   
 $40v^2 - 45v - 66$

2.  $5(7m^2 + 9m - 1) - 7(-9m^2 - 6m - 1)$   
 $98m^2 + 87m + 2$

3.  $(4v - 9) - 4(v^2 - v + 7)$   
 $-4v^2 + 8v - 37$

4.  $7(-5z^2 + 2z - 6) + 3(7z^2 + z - 3)$   
 $-14z^2 + 17z - 51$

5.  $-4(-6q^2 - 6q + 6) + 9(8q^2 + 8q - 7)$   
 $96q^2 + 96q - 87$

6.  $-8(-y^2 + y + 6) - 5(-8y^2 - 2y + 7)$   
 $48y^2 + 2y - 83$

7.  $-6(-5x^2 + 6x + 6) - 7(-x^2 - 4x - 8)$   
 $37x^2 - 8x + 20$

8.  $-7(h^2 - h) - 8(-9h^2 - 4h - 8)$   
 $65h^2 + 39h + 64$

9.  $4(-7v^2 - 2v - 6) - 2(2v^2 - 7v - 1)$   
 $-32v^2 + 6v - 22$

10.  $-5(-8k^2 + k + 6) - 3(7k^2 + k + 8)$   
 $19k^2 - 8k - 54$