

# Adding & Subtracting Quadratic Expressions (A)

Simplify each expression.

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

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

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

4.  $2(-w^2 + w - 4) + 9(9w^2 - w + 9)$

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

6.  $(-7r^2 - 5r + 8) + 5(8r^2 - 4r + 1)$

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

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

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

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

# Adding & Subtracting Quadratic Expressions (A) Answers

Simplify each expression.

1.  $-8(-5t^2 + 2t + 2) + 9(-6t^2 + 2t - 8)$   
 $-14t^2 + 2t - 88$

2.  $(7m^2 + 9m - 8) - 5(-7m^2 - 4m - 1)$   
 $42m^2 + 29m - 3$

3.  $2(-3w^2 - 7w + 2) + 9(4w^2 + 2w + 7)$   
 $30w^2 + 4w + 67$

4.  $2(-w^2 + w - 4) + 9(9w^2 - w + 9)$   
 $79w^2 - 7w + 73$

5.  $(2v^2 + 5v - 8) + (-9v^2 + 3v - 6)$   
 $-7v^2 + 8v - 14$

6.  $(-7r^2 - 5r + 8) + 5(8r^2 - 4r + 1)$   
 $33r^2 - 25r + 13$

7.  $(-7b^2 - 3b - 9) - 7(8b^2 + 9b + 6)$   
 $-63b^2 - 66b - 51$

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

9.  $(9b^2 + 4b - 2) - 4(9b^2 + 2)$   
 $-27b^2 + 4b - 10$

10.  $(-9z^2 + 8z - 5) - 7(8z^2 + 9z + 4)$   
 $-65z^2 - 55z - 33$