

# Adding & Subtracting Quadratic Expressions (I)

Simplify each expression.

1.  $(8p^2 - 3p - 8) + 3(-3p^2 + 2p + 7)$

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

3.  $(7a^2 - a - 1) - (-6a^2 + 5a + 1)$

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

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

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

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

8.  $8(8f^2 - 6f - 2) - 4(-8f^2 - 6f - 4)$

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

10.  $-8(7m^2 - 6m + 9) - (-6m^2 + 5m - 7)$

# Adding & Subtracting Quadratic Expressions (I) Answers

Simplify each expression.

1.  $(8p^2 - 3p - 8) + 3(-3p^2 + 2p + 7)$   
 $-p^2 + 3p + 13$

2.  $(-2s^2 + 2s + 7) + 4(3s^2 - 9s - 6)$   
 $10s^2 - 34s - 17$

3.  $(7a^2 - a - 1) - (-6a^2 + 5a + 1)$   
 $13a^2 - 6a - 2$

4.  $(-8y^2 + 9y - 1) + 5(y + 5)$   
 $-8y^2 + 14y + 24$

5.  $(-r^2 + 8r - 5) - 5(-6r^2 + 6r + 4)$   
 $29r^2 - 22r - 25$

6.  $(9s^2 + 3s - 6) + (s^2 + 9s + 5)$   
 $10s^2 + 12s - 1$

7.  $(-5v^2 + 7v + 7) - 4(-6v^2 - 6v + 5)$   
 $19v^2 + 31v - 13$

8.  $8(8f^2 - 6f - 2) - 4(-8f^2 - 6f - 4)$   
 $96f^2 - 24f$

9.  $4(4z^2 - 2z + 9) - 8(-3z^2 - 3z + 2)$   
 $40z^2 + 16z + 20$

10.  $-8(7m^2 - 6m + 9) - (-6m^2 + 5m - 7)$   
 $-50m^2 + 43m - 65$