

# Résolution d'Équations Quadratiques (C)

Calculer les solutions des équations suivantes.

1.  $20x^2 - 21x - 2 = 3$

7.  $72x^2 - 27x - 12 = 33$

2.  $28x^2 + 50x + 9 = -3$

8.  $48x^2 - 16x - 19 = 13$

3.  $15x^2 + 4x - 27 = 8$

9.  $54x^2 - 48x - 26 = 6$

4.  $56x^2 - 112x + 31 = -25$

10.  $14x^2 - 38x + 4 = -16$

5.  $54x^2 + 15x - 5 = 20$

11.  $8x^2 + 34x + 35 = 0$

6.  $7x^2 + 21x - 24 = 4$

12.  $28x^2 - 39x - 39 = 15$

## Résolution d'Équations Quadratiques (C) Réponses

Calculer les solutions des équations suivantes.

1.  $20x^2 - 21x - 2 = 3$   
 $20x^2 - 21x - 5 = 0$   
 $(5x + 1)(4x - 5) = 0$   
 $x = -1/5, 1\ 1/4$

2.  $28x^2 + 50x + 9 = -3$   
 $28x^2 + 50x + 12 = 0$   
 $(7x + 2)(4x + 6) = 0$   
 $x = -2/7, -1\ 1/2$

3.  $15x^2 + 4x - 27 = 8$   
 $15x^2 + 4x - 35 = 0$   
 $(5x - 7)(3x + 5) = 0$   
 $x = 1\ 2/5, -1\ 2/3$

4.  $56x^2 - 112x + 31 = -25$   
 $56x^2 - 112x + 56 = 0$   
 $(7x - 7)(8x - 8) = 0$   
 $x = 1$

5.  $54x^2 + 15x - 5 = 20$   
 $54x^2 + 15x - 25 = 0$   
 $(9x - 5)(6x + 5) = 0$   
 $x = 5/9, -5/6$

6.  $7x^2 + 21x - 24 = 4$   
 $7x^2 + 21x - 28 = 0$   
 $(7x - 7)(x + 4) = 0$   
 $x = 1, -4$

7.  $72x^2 - 27x - 12 = 33$   
 $72x^2 - 27x - 45 = 0$   
 $(8x + 5)(9x - 9) = 0$   
 $x = -5/8, 1$

8.  $48x^2 - 16x - 19 = 13$   
 $48x^2 - 16x - 32 = 0$   
 $(8x - 8)(6x + 4) = 0$   
 $x = 1, -2/3$

9.  $54x^2 - 48x - 26 = 6$   
 $54x^2 - 48x - 32 = 0$   
 $(9x + 4)(6x - 8) = 0$   
 $x = -4/9, 1\ 1/3$

10.  $14x^2 - 38x + 4 = -16$   
 $14x^2 - 38x + 20 = 0$   
 $(2x - 4)(7x - 5) = 0$   
 $x = 2, 5/7$

11.  $8x^2 + 34x + 35 = 0$   
 $8x^2 + 34x + 35 = 0$   
 $(2x + 5)(4x + 7) = 0$   
 $x = -2\ 1/2, -1\ 3/4$

12.  $28x^2 - 39x - 39 = 15$   
 $28x^2 - 39x - 54 = 0$   
 $(4x - 9)(7x + 6) = 0$   
 $x = 2\ 1/4, -6/7$