

# Résolution d'Équations Quadratiques (F)

Calculer les solutions des équations suivantes.

1.  $40x^2 - 25x - 15 = 0$

7.  $8x^2 + 30x + 18 = 0$

2.  $10x^2 - 24x + 14 = 0$

8.  $30x^2 - 19x - 4 = 0$

3.  $54x^2 + 96x + 42 = 0$

9.  $63x^2 - 23x + 2 = 0$

4.  $48x^2 + 20x - 8 = 0$

10.  $6x^2 - 13x - 8 = 0$

5.  $15x^2 + 11x + 2 = 0$

11.  $20x^2 + 11x - 3 = 0$

6.  $15x^2 + 26x - 21 = 0$

12.  $-35x^2 + 26x + 16 = 0$

## Résolution d'Équations Quadratiques (F) Réponses

Calculer les solutions des équations suivantes.

1.  $40x^2 - 25x - 15 = 0$   
 $(5x - 5)(8x + 3) = 0$   
 $x = 1, -3/8$

7.  $8x^2 + 30x + 18 = 0$   
 $(2x + 6)(4x + 3) = 0$   
 $x = -3, -3/4$

2.  $10x^2 - 24x + 14 = 0$   
 $(2x - 2)(5x - 7) = 0$   
 $x = 1, 1\ 2/5$

8.  $30x^2 - 19x - 4 = 0$   
 $(6x + 1)(5x - 4) = 0$   
 $x = -1/6, 4/5$

3.  $54x^2 + 96x + 42 = 0$   
 $(6x + 6)(9x + 7) = 0$   
 $x = -1, -7/9$

9.  $63x^2 - 23x + 2 = 0$   
 $(9x - 2)(7x - 1) = 0$   
 $x = 2/9, 1/7$

4.  $48x^2 + 20x - 8 = 0$   
 $(8x - 2)(6x + 4) = 0$   
 $x = 1/4, -2/3$

10.  $6x^2 - 13x - 8 = 0$   
 $(2x + 1)(3x - 8) = 0$   
 $x = -1/2, 2\ 2/3$

5.  $15x^2 + 11x + 2 = 0$   
 $(3x + 1)(5x + 2) = 0$   
 $x = -1/3, -2/5$

11.  $20x^2 + 11x - 3 = 0$   
 $(5x - 1)(4x + 3) = 0$   
 $x = 1/5, -3/4$

6.  $15x^2 + 26x - 21 = 0$   
 $(5x - 3)(3x + 7) = 0$   
 $x = 3/5, -2\ 1/3$

12.  $-35x^2 + 26x + 16 = 0$   
 $-(5x + 2)(7x - 8) = 0$   
 $x = -2/5, 1\ 1/7$