

# Résolution d'Équations Quadratiques (G)

Calculer les solutions des équations suivantes.

$$1. \quad 6x^2 + 46x - 16 = 0$$

$$7. \quad -4x^2 + 40x - 64 = 0$$

$$2. \quad -21x^2 + 11x + 2 = 0$$

$$8. \quad -6x^2 + 38x - 40 = 0$$

$$3. \quad -27x^2 + 60x - 12 = 0$$

$$9. \quad 4x^2 + 30x - 16 = 0$$

$$4. \quad -18x^2 - 9x + 20 = 0$$

$$10. \quad 8x^2 - 10x - 12 = 0$$

$$5. \quad 4x^2 + x - 18 = 0$$

$$11. \quad 24x^2 - 42x + 18 = 0$$

$$6. \quad -4x^2 - 26x - 30 = 0$$

$$12. \quad 36x^2 - 76x + 8 = 0$$

## Résolution d'Équations Quadratiques (G) Réponses

Calculer les solutions des équations suivantes.

1.  $6x^2 + 46x - 16 = 0$   
 $(x + 8)(6x - 2) = 0$   
 $x = -8, \quad 1/3$

7.  $-4x^2 + 40x - 64 = 0$   
 $-(4x - 8)(x - 8) = 0$   
 $x = 2, \quad 8$

2.  $-21x^2 + 11x + 2 = 0$   
 $(7x + 1)(3x - 2) = 0$   
 $x = -1/7, \quad 2/3$

8.  $-6x^2 + 38x - 40 = 0$   
 $-(x - 5)(6x - 8) = 0$   
 $x = 5, \quad 1 1/3$

3.  $-27x^2 + 60x - 12 = 0$   
 $(3x - 6)(9x - 2) = 0$   
 $x = 2, \quad 2/9$

9.  $4x^2 + 30x - 16 = 0$   
 $(4x - 2)(x + 8) = 0$   
 $x = 1/2, \quad -8$

4.  $-18x^2 - 9x + 20 = 0$   
 $-(3x + 4)(6x - 5) = 0$   
 $x = -1 1/3, \quad 5/6$

10.  $8x^2 - 10x - 12 = 0$   
 $(x - 2)(8x + 6) = 0$   
 $x = 2, \quad -3/4$

5.  $4x^2 + x - 18 = 0$   
 $(4x + 9)(x - 2) = 0$   
 $x = -2 1/4, \quad 2$

11.  $24x^2 - 42x + 18 = 0$   
 $(8x - 6)(3x - 3) = 0$   
 $x = 3/4, \quad 1$

6.  $-4x^2 - 26x - 30 = 0$   
 $(4x + 6)(x + 5) = 0$   
 $x = -1 1/2, \quad -5$

12.  $36x^2 - 76x + 8 = 0$   
 $(9x - 1)(4x - 8) = 0$   
 $x = 1/9, \quad 2$