

# Résolution d'Équations Quadratiques (C)

Calculer les solutions des équations suivantes.

$$1. \quad 16x^2 - 32x + 15 = 0$$

$$7. \quad 48x^2 - 16x - 32 = 0$$

$$2. \quad 36x^2 + 108x + 72 = 0$$

$$8. \quad 42x^2 - 58x + 20 = 0$$

$$3. \quad 14x^2 + 29x - 15 = 0$$

$$9. \quad 35x^2 - 33x - 8 = 0$$

$$4. \quad 24x^2 - 64x + 42 = 0$$

$$10. \quad 24x^2 + 71x + 35 = 0$$

$$5. \quad 30x^2 - 34x - 8 = 0$$

$$11. \quad 27x^2 - 21x + 2 = 0$$

$$6. \quad 12x^2 - 44x - 16 = 0$$

$$12. \quad 24x^2 + 49x + 15 = 0$$

## Résolution d'Équations Quadratiques (C) Réponses

Calculer les solutions des équations suivantes.

1.  $16x^2 - 32x + 15 = 0$   
 $(4x - 5)(4x - 3) = 0$   
 $x = 1\frac{1}{4}, \quad 3/4$

7.  $48x^2 - 16x - 32 = 0$   
 $(6x + 4)(8x - 8) = 0$   
 $x = -2/3, \quad 1$

2.  $36x^2 + 108x + 72 = 0$   
 $(9x + 9)(4x + 8) = 0$   
 $x = -1, \quad -2$

8.  $42x^2 - 58x + 20 = 0$   
 $(7x - 5)(6x - 4) = 0$   
 $x = 5/7, \quad 2/3$

3.  $14x^2 + 29x - 15 = 0$   
 $(2x + 5)(7x - 3) = 0$   
 $x = -2\frac{1}{2}, \quad 3/7$

9.  $35x^2 - 33x - 8 = 0$   
 $(5x + 1)(7x - 8) = 0$   
 $x = -1/5, \quad 1\frac{1}{7}$

4.  $24x^2 - 64x + 42 = 0$   
 $(6x - 7)(4x - 6) = 0$   
 $x = 1\frac{1}{6}, \quad 1\frac{1}{2}$

10.  $24x^2 + 71x + 35 = 0$   
 $(8x + 5)(3x + 7) = 0$   
 $x = -5/8, \quad -2\frac{1}{3}$

5.  $30x^2 - 34x - 8 = 0$   
 $(6x - 8)(5x + 1) = 0$   
 $x = 1\frac{1}{3}, \quad -1/5$

11.  $27x^2 - 21x + 2 = 0$   
 $(9x - 1)(3x - 2) = 0$   
 $x = 1/9, \quad 2/3$

6.  $12x^2 - 44x - 16 = 0$   
 $(6x + 2)(2x - 8) = 0$   
 $x = -1/3, \quad 4$

12.  $24x^2 + 49x + 15 = 0$   
 $(8x + 3)(3x + 5) = 0$   
 $x = -3/8, \quad -1\frac{2}{3}$