

Résolution d'Équations Quadratiques (D)

Calculer les solutions des équations suivantes.

$$1. \quad x^2 + 14x + 2 = -43$$

$$7. \quad 4x^2 - 1 = 0$$

$$2. \quad 4x^2 + 26x + 23 = -17$$

$$8. \quad x^2 + 5x + 3 = -3$$

$$3. \quad 2x^2 - 12x - 44 = 10$$

$$9. \quad 2x^2 - 9x + 6 = -1$$

$$4. \quad 2x^2 - 11x + 2 = -13$$

$$10. \quad x^2 + 4x - 19 = 2$$

$$5. \quad 4x^2 - 12x - 4 = 3$$

$$11. \quad 4x^2 - 14x - 6 = 12$$

$$6. \quad 2x^2 + 7x - 1 = 3$$

$$12. \quad 4x^2 - 6x = -2$$

Résolution d'Équations Quadratiques (D) Réponses

Calculer les solutions des équations suivantes.

1. $x^2 + 14x + 2 = -43$
 $x^2 + 14x + 45 = 0$
 $(x + 9)(x + 5) = 0$
 $x = -9, -5$

7. $4x^2 - 1 = 0$
 $4x^2 - 1 = 0$
 $(2x + 1)(2x - 1) = 0$
 $x = -1/2, 1/2$

2. $4x^2 + 26x + 23 = -17$
 $4x^2 + 26x + 40 = 0$
 $(2x + 8)(2x + 5) = 0$
 $x = -4, -2 1/2$

8. $x^2 + 5x + 3 = -3$
 $x^2 + 5x + 6 = 0$
 $(x + 3)(x + 2) = 0$
 $x = -3, -2$

3. $2x^2 - 12x - 44 = 10$
 $2x^2 - 12x - 54 = 0$
 $(x - 9)(2x + 6) = 0$
 $x = 9, -3$

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

4. $2x^2 - 11x + 2 = -13$
 $2x^2 - 11x + 15 = 0$
 $(2x - 5)(x - 3) = 0$
 $x = 2 1/2, 3$

10. $x^2 + 4x - 19 = 2$
 $x^2 + 4x - 21 = 0$
 $(x + 7)(x - 3) = 0$
 $x = -7, 3$

5. $4x^2 - 12x - 4 = 3$
 $4x^2 - 12x - 7 = 0$
 $(2x - 7)(2x + 1) = 0$
 $x = 3 1/2, -1/2$

11. $4x^2 - 14x - 6 = 12$
 $4x^2 - 14x - 18 = 0$
 $(2x + 2)(2x - 9) = 0$
 $x = -1, 4 1/2$

6. $2x^2 + 7x - 1 = 3$
 $2x^2 + 7x - 4 = 0$
 $(x + 4)(2x - 1) = 0$
 $x = -4, 1/2$

12. $4x^2 - 6x = -2$
 $4x^2 - 6x + 2 = 0$
 $(2x - 2)(2x - 1) = 0$
 $x = 1, 1/2$