

Résolution d'Équations Quadratiques (I)

Calculer les solutions des équations suivantes.

1. $4x^2 + 8x + 3 = -1$

7. $4x^2 + 8x - 2 = 3$

2. $x^2 + 3x - 3 = 1$

8. $x^2 + 2x - 45 = 18$

3. $-2x^2 - 12x - 4 = 12$

9. $-2x^2 + 11x - 12 = 2$

4. $2x^2 + 9x - 45 = 36$

10. $-2x^2 - x + 1 = 0$

5. $-x^2 - 4x + 4 = -1$

11. $-4x^2 - 26x - 37 = 5$

6. $2x^2 + 3x - 5 = 9$

12. $-2x^2 - 5x + 7 = -11$

Résolution d'Équations Quadratiques (I) Réponses

Calculer les solutions des équations suivantes.

1. $4x^2 + 8x + 3 = -1$
 $4x^2 + 8x + 4 = 0$
 $(2x + 2)(2x + 2) = 0$
 $x = -1$

7. $4x^2 + 8x - 2 = 3$
 $4x^2 + 8x - 5 = 0$
 $(2x - 1)(2x + 5) = 0$
 $x = 1/2, -2 \frac{1}{2}$

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

8. $x^2 + 2x - 45 = 18$
 $x^2 + 2x - 63 = 0$
 $(x - 7)(x + 9) = 0$
 $x = 7, -9$

3. $-2x^2 - 12x - 4 = 12$
 $-2x^2 - 12x - 16 = 0$
 $(2x + 4)(x + 4) = 0$
 $x = -2, -4$

9. $-2x^2 + 11x - 12 = 2$
 $-2x^2 + 11x - 14 = 0$
 $-(x - 2)(2x - 7) = 0$
 $x = 2, 3 \frac{1}{2}$

4. $2x^2 + 9x - 45 = 36$
 $2x^2 + 9x - 81 = 0$
 $(x + 9)(2x - 9) = 0$
 $x = -9, 4 \frac{1}{2}$

10. $-2x^2 - x + 1 = 0$
 $-2x^2 - x + 1 = 0$
 $-(x + 1)(2x - 1) = 0$
 $x = -1, 1/2$

5. $-x^2 - 4x + 4 = -1$
 $-x^2 - 4x + 5 = 0$
 $(x - 1)(x + 5) = 0$
 $x = 1, -5$

11. $-4x^2 - 26x - 37 = 5$
 $-4x^2 - 26x - 42 = 0$
 $-(2x + 7)(2x + 6) = 0$
 $x = -3 \frac{1}{2}, -3$

6. $2x^2 + 3x - 5 = 9$
 $2x^2 + 3x - 14 = 0$
 $(x - 2)(2x + 7) = 0$
 $x = 2, -3 \frac{1}{2}$

12. $-2x^2 - 5x + 7 = -11$
 $-2x^2 - 5x + 18 = 0$
 $-(x - 2)(2x + 9) = 0$
 $x = 2, -4 \frac{1}{2}$