

Résolution d'Équations Quadratiques (C)

Calculer les solutions des équations suivantes.

1. $2x^2 - 17x + 29 = -7$

7. $-4x^2 + 2x + 7 = -23$

2. $-x^2 + 14x - 8 = 37$

8. $-2x^2 - 6x + 15 = -5$

3. $-x^2 - 15x - 14 = 40$

9. $4x^2 - 14x + 12 = 0$

4. $-2x^2 + 6x - 2 = 2$

10. $-2x^2 - 3x + 6 = -48$

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

11. $2x^2 - 5x - 1 = 2$

6. $2x^2 - 9x - 4 = 1$

12. $-4x^2 - 4x + 8 = -7$

Résolution d'Équations Quadratiques (C) Réponses

Calculer les solutions des équations suivantes.

1. $2x^2 - 17x + 29 = -7$
 $2x^2 - 17x + 36 = 0$
 $(2x - 9)(x - 4) = 0$
 $x = 4 \frac{1}{2}, 4$

2. $-x^2 + 14x - 8 = 37$
 $-x^2 + 14x - 45 = 0$
 $(x - 9)(x - 5) = 0$
 $x = 9, 5$

3. $-x^2 - 15x - 14 = 40$
 $-x^2 - 15x - 54 = 0$
 $(x + 9)(x + 6) = 0$
 $x = -9, -6$

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

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

6. $2x^2 - 9x - 4 = 1$
 $2x^2 - 9x - 5 = 0$
 $(x - 5)(2x + 1) = 0$
 $x = 5, -\frac{1}{2}$

7. $-4x^2 + 2x + 7 = -23$
 $-4x^2 + 2x + 30 = 0$
 $-(2x - 6)(2x + 5) = 0$
 $x = 3, -2 \frac{1}{2}$

8. $-2x^2 - 6x + 15 = -5$
 $-2x^2 - 6x + 20 = 0$
 $-(x + 5)(2x - 4) = 0$
 $x = -5, 2$

9. $4x^2 - 14x + 12 = 0$
 $4x^2 - 14x + 12 = 0$
 $(2x - 4)(2x - 3) = 0$
 $x = 2, 1 \frac{1}{2}$

10. $-2x^2 - 3x + 6 = -48$
 $-2x^2 - 3x + 54 = 0$
 $-(2x - 9)(x + 6) = 0$
 $x = 4 \frac{1}{2}, -6$

11. $2x^2 - 5x - 1 = 2$
 $2x^2 - 5x - 3 = 0$
 $(2x + 1)(x - 3) = 0$
 $x = -\frac{1}{2}, 3$

12. $-4x^2 - 4x + 8 = -7$
 $-4x^2 - 4x + 15 = 0$
 $-(2x - 3)(2x + 5) = 0$
 $x = 1 \frac{1}{2}, -2 \frac{1}{2}$