

Résolution d'Équations Quadratiques (C)

Calculer les solutions des équations suivantes.

1. $-x^2 - 14x - 28 = 20$

7. $x^2 - 13x = -42$

2. $-x^2 - 13x - 35 = 5$

8. $-x^2 + 7x - 11 = 1$

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

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

4. $-x^2 - 2x + 37 = -11$

10. $x^2 - 4x - 14 = 31$

5. $-x^2 - 4x + 31 = -14$

11. $-x^2 + 3x + 9 = -19$

6. $-x^2 - 4x + 2 = -3$

12. $x^2 - 15x + 39 = -17$

Résolution d'Équations Quadratiques (C) Réponses

Calculer les solutions des équations suivantes.

1. $-x^2 - 14x - 28 = 20$
 $-x^2 - 14x - 48 = 0$
 $-(x + 8)(x + 6) = 0$
 $x = -8, -6$

7. $x^2 - 13x = -42$
 $x^2 - 13x + 42 = 0$
 $(x - 7)(x - 6) = 0$
 $x = 7, 6$

2. $-x^2 - 13x - 35 = 5$
 $-x^2 - 13x - 40 = 0$
 $(x + 8)(x + 5) = 0$
 $x = -8, -5$

8. $-x^2 + 7x - 11 = 1$
 $-x^2 + 7x - 12 = 0$
 $-(x - 3)(x - 4) = 0$
 $x = 3, 4$

3. $x^2 + 9x + 2 = -6$
 $x^2 + 9x + 8 = 0$
 $(x + 8)(x + 1) = 0$
 $x = -8, -1$

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

4. $-x^2 - 2x + 37 = -11$
 $-x^2 - 2x + 48 = 0$
 $-(x - 6)(x + 8) = 0$
 $x = 6, -8$

10. $x^2 - 4x - 14 = 31$
 $x^2 - 4x - 45 = 0$
 $(x - 9)(x + 5) = 0$
 $x = 9, -5$

5. $-x^2 - 4x + 31 = -14$
 $-x^2 - 4x + 45 = 0$
 $(x + 9)(x - 5) = 0$
 $x = -9, 5$

11. $-x^2 + 3x + 9 = -19$
 $-x^2 + 3x + 28 = 0$
 $-(x - 7)(x + 4) = 0$
 $x = 7, -4$

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

12. $x^2 - 15x + 39 = -17$
 $x^2 - 15x + 56 = 0$
 $(x - 7)(x - 8) = 0$
 $x = 7, 8$