Résolution d'Équations Quadratiques (G)

Calculer les solutions des équations suivantes.

1. $x^2 - 7x - 5 = 3$
2. $-x^2 - 5x + 13 = -11$
3. $-x^2 + 10x - 5 = 19$
4. $x^2 - 4x - 2 = 10$
5. $x^2 - 6x - 3 = 4$
6. $x^2 - 4x - 16 = 5$
7. $x^2 + 4x - 18 = 14$
8. $x^2 - 6 = 3$
9. $x^2 - 2x - 4 = 4$
10. $-x^2 - 8x - 13 = 2$
11. $x^2 - 7x + 10 = -2$
12. $-x^2 - 5x + 5 = -1$

Résolution d'Équations Quadratiques (G) Réponses

Calculer les solutions des équations suivantes.

1. $x^2 - 7x - 5 = 3$
$x^2 - 7x - 8 = 0$
$(x + 1)(x - 8) = 0$
$x = -1 \ , \ 8$

2. $-x^2 - 5x + 13 = -11$
$-x^2 - 5x + 24 = 0$
$(x - 3)(x + 8) = 0$
$x = 3 \ , \ -8$

3. $-x^2 + 10x - 5 = 19$
$-x^2 + 10x - 24 = 0$
$(x - 6)(x - 4) = 0$
$x = 6 \ , \ 4$

4. $x^2 - 4x - 2 = 10$
$x^2 - 4x - 12 = 0$
$(x + 2)(x - 6) = 0$
$x = -2 \ , \ 6$

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

6. $x^2 - 4x - 16 = 5$
$x^2 - 4x - 21 = 0$
$(x - 7)(x + 3) = 0$
$x = 7 \ , \ -3$

7. $x^2 + 4x - 18 = 14$
$x^2 + 4x - 32 = 0$
$(x - 4)(x + 8) = 0$
$x = 4 \ , \ -8$

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

9. $x^2 - 2x - 4 = 4$
$x^2 - 2x - 8 = 0$
$(x + 2)(x - 4) = 0$
$x = -2 \ , \ 4$

10. $-x^2 - 8x - 13 = 2$
$-x^2 - 8x - 15 = 0$
$-(x + 5)(x + 3) = 0$
$x = -5 \ , \ -3$

11. $x^2 - 7x + 10 = -2$
$x^2 - 7x + 12 = 0$
$(x - 4)(x - 3) = 0$
$x = 4 \ , \ 3$

12. $-x^2 - 5x + 5 = -1$
$-x^2 - 5x + 6 = 0$
$-(x - 1)(x + 6) = 0$
$x = 1 \ , \ -6$