Résolution d'Équations Quadratiques (F)

Calculer les solutions des équations suivantes.

1. $x^2 - 7x - 15 = 3$
2. $-x^2 - 3x - 1 = 1$
3. $x^2 + 4x - 20 = 1$
4. $x^2 - 9x + 3 = -15$
5. $x^2 + 2x + 1 = 0$
6. $-x^2 + 7x - 7 = 3$
7. $x^2 + 10x + 14 = -7$
8. $-x^2 - x + 42 = -30$
9. $-x^2 + 10x - 14 = 2$
10. $x^2 + 10x + 8 = -1$
11. $x^2 + 12x + 18 = -17$
12. $x^2 + x - 15 = 41$

Résolution d'Équations Quadratiques (F) Réponses

Calculer les solutions des équations suivantes.

1. $x^2 - 7x - 15 = 3$
$x^2 - 7x - 18 = 0$
$(x - 9)(x + 2) = 0$
$x = 9 \ , \ -2$

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

3. $x^2 + 4x - 20 = 1$
$x^2 + 4x - 21 = 0$
$(x - 3)(x + 7) = 0$
$x = 3 \ , \ -7$

4. $x^2 - 9x + 3 = -15$
$x^2 - 9x + 18 = 0$
$(x - 6)(x - 3) = 0$
$x = 6 \ , \ 3$

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

6. $-x^2 + 7x - 7 = 3$
$-x^2 + 7x - 10 = 0$
$(x - 5)(x - 2) = 0$
$x = 5 \ , \ 2$

7. $x^2 + 10x + 14 = -7$
$x^2 + 10x + 21 = 0$
$(x + 3)(x + 7) = 0$
$x = -3 \ , \ -7$

8. $-x^2 - x + 42 = -30$
$-x^2 - x + 72 = 0$
$-(x - 8)(x + 9) = 0$
$x = 8 \ , \ -9$

9. $-x^2 + 10x - 14 = 2$
$-x^2 + 10x - 16 = 0$
$-(x - 8)(x - 2) = 0$
$x = 8 \ , \ 2$

10. $x^2 + 10x + 8 = -1$
$x^2 + 10x + 9 = 0$
$(x + 9)(x + 1) = 0$
$x = -9 \ , \ -1$

11. $x^2 + 12x + 18 = -17$
$x^2 + 12x + 35 = 0$
$(x + 5)(x + 7) = 0$
$x = -5 \ , \ -7$

12. $x^2 + x - 15 = 41$
$x^2 + x - 56 = 0$
$(x + 8)(x - 7) = 0$
$x = -8 \ , \ 7$