Résolution d'Équations Quadratiques (D)

Calculer les solutions des équations suivantes.

1. $x^2 - 3x - 25 = 15$
2. $x^2 + 5x = -6$
3. $x^2 - 2x - 12 = 36$
4. $x^2 - 2x - 11 = 4$
5. $x^2 - 4x - 7 = 38$
6. $x^2 - 7x + 6 = -6$
7. $x^2 - 9x + 5 = -13$
8. $x^2 + 6x = -5$
9. $x^2 + x - 2 = 4$
10. $x^2 + 14x + 37 = -11$
11. $x^2 - 4x - 2 = 10$
12. $x^2 + 3x - 8 = 20$

Résolution d'Équations Quadratiques (D) Réponses

Calculer les solutions des équations suivantes.

1. $x^2 - 3x - 25 = 15$
$x^2 - 3x - 40 = 0$
$(x + 5)(x - 8) = 0$
$x = -5 \ , \ 8$

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

3. $x^2 - 2x - 12 = 36$
$x^2 - 2x - 48 = 0$
$(x - 8)(x + 6) = 0$
$x = 8 \ , \ -6$

4. $x^2 - 2x - 11 = 4$
$x^2 - 2x - 15 = 0$
$(x - 5)(x + 3) = 0$
$x = 5 \ , \ -3$

5. $x^2 - 4x - 7 = 38$
$x^2 - 4x - 45 = 0$
$(x - 9)(x + 5) = 0$
$x = 9 \ , \ -5$

6. $x^2 - 7x + 6 = -6$
$x^2 - 7x + 12 = 0$
$(x - 4)(x - 3) = 0$
$x = 4 \ , \ 3$

7. $x^2 - 9x + 5 = -13$
$x^2 - 9x + 18 = 0$
$(x - 6)(x - 3) = 0$
$x = 6 \ , \ 3$

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

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

10. $x^2 + 14x + 37 = -11$
$x^2 + 14x + 48 = 0$
$(x + 6)(x + 8) = 0$
$x = -6 \ , \ -8$

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

12. $x^2 + 3x - 8 = 20$
$x^2 + 3x - 28 = 0$
$(x + 7)(x - 4) = 0$
$x = -7 \ , \ 4$