Résolution d'Équations Quadratiques (H)

Calculer les solutions des équations suivantes.

1. $2x^2 - 14x = -12$
2. $-x^2 - 4x = -21$
3. $-2x^2 - x + 2 = -1$
4. $2x^2 + 27x + 29 = -52$
5. $2x^2 - 11x + 2 = -7$
6. $-2x^2 + 15x + 5 = -22$
7. $-4x^2 + 6 = -10$
8. $-x^2 + x + 57 = -15$
9. $x^2 + x - 3 = 9$
10. $-2x^2 - 4x - 1 = 1$
11. $4x^2 - 6x - 1 = 3$
12. $2x^2 + 4x - 4 = 2$

Résolution d'Équations Quadratiques (H) Réponses

Calculer les solutions des équations suivantes.

1. $2x^2 - 14x = -12$
$2x^2 - 14x + 12 = 0$
$(2x - 2)(x - 6) = 0$
$x = 1 \ , \ 6$

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

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

4. $2x^2 + 27x + 29 = -52$
$2x^2 + 27x + 81 = 0$
$(x + 9)(2x + 9) = 0$
$x = -9 \ , \ -4\ 1/2$

5. $2x^2 - 11x + 2 = -7$
$2x^2 - 11x + 9 = 0$
$(x - 1)(2x - 9) = 0$
$x = 1 \ , \ 4\ 1/2$

6. $-2x^2 + 15x + 5 = -22$
$-2x^2 + 15x + 27 = 0$
$(x - 9)(2x + 3) = 0$
$x = 9 \ , \ -1\ 1/2$

7. $-4x^2 + 6 = -10$
$-4x^2 + 16 = 0$
$-(2x - 4)(2x + 4) = 0$
$x = 2 \ , \ -2$

8. $-x^2 + x + 57 = -15$
$-x^2 + x + 72 = 0$
$-(x - 9)(x + 8) = 0$
$x = 9 \ , \ -8$

9. $x^2 + x - 3 = 9$
$x^2 + x - 12 = 0$
$(x - 3)(x + 4) = 0$
$x = 3 \ , \ -4$

10. $-2x^2 - 4x - 1 = 1$
$-2x^2 - 4x - 2 = 0$
$-(2x + 2)(x + 1) = 0$
$x = -1$

11. $4x^2 - 6x - 1 = 3$
$4x^2 - 6x - 4 = 0$
$(2x - 4)(2x + 1) = 0$
$x = 2 \ , \ -1/2$

12. $2x^2 + 4x - 4 = 2$
$2x^2 + 4x - 6 = 0$
$(x - 1)(2x + 6) = 0$
$x = 1 \ , \ -3$