Résolution d'Équations Quadratiques (E)

Calculer les solutions des équations suivantes.

1. $-2x^2 - 13x + 7 = 0$
2. $-2x^2 + 8x - 4 = 2$
3. $-x^2 - 6x - 1 = 4$
4. $-2x^2 + x + 13 = -32$
5. $-4x^2 + 24x - 19 = 16$
6. $-2x^2 + 23x - 33 = 12$
7. $2x^2 - 7x - 47 = 2$
8. $4x^2 - 2x - 11 = 1$
9. $-x^2 - 10x - 1 = 20$
10. $-x^2 + 5x - 2 = 2$
11. $2x^2 + 4x - 1 = 15$
12. $2x^2 - 11x + 7 = -2$

Résolution d'Équations Quadratiques (E) Réponses

Calculer les solutions des équations suivantes.

1. $-2x^2 - 13x + 7 = 0$
   $-2x^2 - 13x + 7 = 0$
   $-(x + 7)(2x - 1) = 0$
   $x = -7 \ , \ 1/2$

2. $-2x^2 + 8x - 4 = 2$
   $-2x^2 + 8x - 6 = 0$
   $(2x - 6)(x - 1) = 0$
   $x = 3 \ , \ 1$

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

4. $-2x^2 + x + 13 = -32$
   $-2x^2 + x + 45 = 0$
   $-(2x + 9)(x - 5) = 0$
   $x = -4\ 1/2, \ 5$

5. $-4x^2 + 24x - 19 = 16$
   $-4x^2 + 24x - 35 = 0$
   $(2x - 5)(2x - 7) = 0$
   $x = 2\ 1/2, \ 3\ 1/2$

6. $-2x^2 + 23x - 33 = 12$
   $-2x^2 + 23x - 45 = 0$
   $(2x - 5)(x - 9) = 0$
   $x = 2\ 1/2, \ 9$

7. $2x^2 - 7x - 47 = 2$
   $2x^2 - 7x - 49 = 0$
   $(x - 7)(2x + 7) = 0$
   $x = 7 \ , \ -3\ 1/2$

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

9. $-x^2 - 10x - 1 = 20$
   $-x^2 - 10x - 21 = 0$
   $-(x + 7)(x + 3) = 0$
   $x = -7 \ , \ -3$

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

11. $2x^2 + 4x - 1 = 15$
    $2x^2 + 4x - 16 = 0$
    $(2x + 8)(x - 2) = 0$
    $x = -4 \ , \ 2$

12. $2x^2 - 11x + 7 = -2$
    $2x^2 - 11x + 9 = 0$
    $(x - 1)(2x - 9) = 0$
    $x = 1 \ , \ 4\ 1/2$