Résolution d'Équations Quadratiques (H)

Calculer les solutions des équations suivantes.

1. $49x^2 - 28x - 21 = 0$
2. $36x^2 + 100x + 56 = 0$
3. $35x^2 - 89x + 56 = 0$
4. $54x^2 + 99x + 45 = 0$
5. $24x^2 - 18x - 81 = 0$
6. $42x^2 - 38x - 24 = 0$
7. $6x^2 - 26x + 8 = 0$
8. $48x^2 + 4x - 4 = 0$
9. $2x^2 + 4x - 48 = 0$
10. $45x^2 + 18x - 63 = 0$
11. $10x^2 - 7x - 6 = 0$
12. $14x^2 - 14 = 0$

Résolution d'Équations Quadratiques (H) Réponses

Calculer les solutions des équations suivantes.

1. $49x^2 - 28x - 21 = 0$
   $(7x + 3)(7x - 7) = 0$
   $x = -3/7,\ 1$

2. $36x^2 + 100x + 56 = 0$
   $(9x + 7)(4x + 8) = 0$
   $x = -7/9,\ -2$

3. $35x^2 - 89x + 56 = 0$
   $(7x - 8)(5x - 7) = 0$
   $x = 1\ 1/7,\ 1\ 2/5$

4. $54x^2 + 99x + 45 = 0$
   $(6x + 5)(9x + 9) = 0$
   $x = -5/6,\ -1$

5. $24x^2 - 18x - 81 = 0$
   $(6x + 9)(4x - 9) = 0$
   $x = -1\ 1/2,\ 2\ 1/4$

6. $42x^2 - 38x - 24 = 0$
   $(7x + 3)(6x - 8) = 0$
   $x = -3/7,\ 1\ 1/3$

7. $6x^2 - 26x + 8 = 0$
   $(3x - 1)(2x - 8) = 0$
   $x = 1/3,\ 4$

8. $48x^2 + 4x - 4 = 0$
   $(6x + 2)(8x - 2) = 0$
   $x = -1/3,\ 1/4$

9. $2x^2 + 4x - 48 = 0$
   $(2x - 8)(x + 6) = 0$
   $x = 4,\ -6$

10. $45x^2 + 18x - 63 = 0$
    $(5x + 7)(9x - 9) = 0$
    $x = -1\ 2/5,\ 1$

11. $10x^2 - 7x - 6 = 0$
    $(2x + 1)(5x - 6) = 0$
    $x = -1/2,\ 1\ 1/5$

12. $14x^2 - 14 = 0$
    $(7x + 7)(2x - 2) = 0$
    $x = -1,\ 1$