Résolution d'Équations Quadratiques (F)

Calculer les solutions des équations suivantes.

1. $45x^2 + 18x - 45 = 18$
2. $12x^2 + 18x - 30 = 24$
3. $28x^2 + 62x + 5 = -25$
4. $6x^2 - 21x - 6 = 39$
5. $56x^2 - 36x + 1 = -3$
6. $64x^2 + 120x + 10 = -44$
7. $12x^2 + 28x - 4 = 20$
8. $6x^2 - 39x + 44 = -1$
9. $8x^2 - 36x + 36 = -4$
10. $28x^2 + 37x + 8 = -4$
11. $25x^2 + 80x + 1 = -62$
12. $21x^2 + 30x + 2 = -7$

Résolution d'Équations Quadratiques (F) Réponses

Calculer les solutions des équations suivantes.

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

2. $12x^2 + 18x - 30 = 24$
$12x^2 + 18x - 54 = 0$
$(6x - 9)(2x + 6) = 0$
$x = 1\ 1/2,\ -3$

3. $28x^2 + 62x + 5 = -25$
$28x^2 + 62x + 30 = 0$
$(7x + 5)(4x + 6) = 0$
$x = -\ 5/7,\ -1\ 1/2$

4. $6x^2 - 21x - 6 = 39$
$6x^2 - 21x - 45 = 0$
$(x - 5)(6x + 9) = 0$
$x = 5\ ,\ -1\ 1/2$

5. $56x^2 - 36x + 1 = -3$
$56x^2 - 36x + 4 = 0$
$(7x - 1)(8x - 4) = 0$
$x = \ 1/7,\ \ 1/2$

6. $64x^2 + 120x + 10 = -44$
$64x^2 + 120x + 54 = 0$
$(8x + 9)(8x + 6) = 0$
$x = -1\ 1/8,\ -\ 3/4$

7. $12x^2 + 28x - 4 = 20$
$12x^2 + 28x - 24 = 0$
$(2x + 6)(6x - 4) = 0$
$x = -3\ ,\ \ 2/3$

8. $6x^2 - 39x + 44 = -1$
$6x^2 - 39x + 45 = 0$
$(6x - 9)(x - 5) = 0$
$x = 1\ 1/2,\ \ 5$

9. $8x^2 - 36x + 36 = -4$
$8x^2 - 36x + 40 = 0$
$(4x - 8)(2x - 5) = 0$
$x = 2\ ,\ \ 2\ 1/2$

10. $28x^2 + 37x + 8 = -4$
$28x^2 + 37x + 12 = 0$
$(7x + 4)(4x + 3) = 0$
$x = -\ 4/7,\ -\ 3/4$

11. $25x^2 + 80x + 1 = -62$
$25x^2 + 80x + 63 = 0$
$(5x + 9)(5x + 7) = 0$
$x = -1\ 4/5,\ -1\ 2/5$

12. $21x^2 + 30x + 2 = -7$
$21x^2 + 30x + 9 = 0$
$(3x + 3)(7x + 3) = 0$
$x = -1\ ,\ -\ 3/7$