Résolution d'Équations Quadratiques (J)

Calculer les solutions des équations suivantes.

1. $32x^2 - 92x + 31 = -14$
2. $9x^2 + 24x + 1 = -11$
3. $16x^2 + 60x - 15 = 1$
4. $30x^2 + 52x + 10 = -6$
5. $20x^2 - 46x + 13 = -11$
6. $2x^2 + 7x - 17 = 13$
7. $5x^2 + 20x - 5 = 20$
8. $8x^2 - 24x + 11 = -5$
9. $x^2 - 4x - 8 = 4$
10. $9x^2 - 55x + 5 = -1$
11. $36x^2 - 24x + 1 = -2$
12. $4x^2 - 10x = -4$

Résolution d'Équations Quadratiques (J) Réponses

Calculer les solutions des équations suivantes.

1. $32x^2 - 92x + 31 = -14$
$32x^2 - 92x + 45 = 0$
$(4x - 9)(8x - 5) = 0$
$x = 2\ 1/4,\ \ 5/8$

2. $9x^2 + 24x + 1 = -11$
$9x^2 + 24x + 12 = 0$
$(3x + 2)(3x + 6) = 0$
$x = -\ 2/3,\ \ -2$

3. $16x^2 + 60x - 15 = 1$
$16x^2 + 60x - 16 = 0$
$(2x + 8)(8x - 2) = 0$
$x = -4\ ,\ \ 1/4$

4. $30x^2 + 52x + 10 = -6$
$30x^2 + 52x + 16 = 0$
$(6x + 8)(5x + 2) = 0$
$x = -1\ 1/3,\ \ -\ 2/5$

5. $20x^2 - 46x + 13 = -11$
$20x^2 - 46x + 24 = 0$
$(5x - 4)(4x - 6) = 0$
$x =\ 4/5,\ \ 1\ 1/2$

6. $2x^2 + 7x - 17 = 13$
$2x^2 + 7x - 30 = 0$
$(x + 6)(2x - 5) = 0$
$x = -6\ ,\ \ 2\ 1/2$

7. $5x^2 + 20x - 5 = 20$
$5x^2 + 20x - 25 = 0$
$(x + 5)(5x - 5) = 0$
$x = -5\ ,\ \ 1$

8. $8x^2 - 24x + 11 = -5$
$8x^2 - 24x + 16 = 0$
$(x - 2)(8x - 8) = 0$
$x = 2\ ,\ \ 1$

9. $x^2 - 4x - 8 = 4$
$x^2 - 4x - 12 = 0$
$(x - 6)(x + 2) = 0$
$x = 6\ ,\ \ -2$

10. $9x^2 - 55x + 5 = -1$
$9x^2 - 55x + 6 = 0$
$(9x - 1)(x - 6) = 0$
$x =\ 1/9,\ \ 6$

11. $36x^2 - 24x + 1 = -2$
$36x^2 - 24x + 3 = 0$
$(6x - 3)(6x - 1) = 0$
$x =\ 1/2,\ \ 1/6$

12. $4x^2 - 10x = -4$
$4x^2 - 10x + 4 = 0$
$(4x - 2)(x - 2) = 0$
$x =\ 1/2,\ \ 2$