

Résolution d'Équations Quadratiques (I)

Calculer les solutions des équations suivantes.

1. $12x^2 - 31x + 6 = -1$

7. $10x^2 + 52x + 16 = -32$

2. $9x^2 - 6x + 1 = 0$

8. $16x^2 - 66x - 19 = 8$

3. $72x^2 - 11x - 17 = 18$

9. $48x^2 + 34x - 1 = 4$

4. $40x^2 + 112x + 10 = -62$

10. $32x^2 - 16x + 1 = -1$

5. $4x^2 - 11x + 4 = -3$

11. $63x^2 - 91x + 15 = -13$

6. $21x^2 - 10x - 15 = 9$

12. $30x^2 - 4x - 1 = 1$

Résolution d'Équations Quadratiques (I) Réponses

Calculer les solutions des équations suivantes.

1. $12x^2 - 31x + 6 = -1$
 $12x^2 - 31x + 7 = 0$
 $(3x - 7)(4x - 1) = 0$
 $x = 2 \frac{1}{3}, \frac{1}{4}$

7. $10x^2 + 52x + 16 = -32$
 $10x^2 + 52x + 48 = 0$
 $(5x + 6)(2x + 8) = 0$
 $x = -1 \frac{1}{5}, -4$

2. $9x^2 - 6x + 1 = 0$
 $9x^2 - 6x + 1 = 0$
 $(3x - 1)(3x - 1) = 0$
 $x = \frac{1}{3}$

8. $16x^2 - 66x - 19 = 8$
 $16x^2 - 66x - 27 = 0$
 $(8x + 3)(2x - 9) = 0$
 $x = -\frac{3}{8}, 4 \frac{1}{2}$

3. $72x^2 - 11x - 17 = 18$
 $72x^2 - 11x - 35 = 0$
 $(9x - 7)(8x + 5) = 0$
 $x = \frac{7}{9}, -\frac{5}{8}$

9. $48x^2 + 34x - 1 = 4$
 $48x^2 + 34x - 5 = 0$
 $(6x + 5)(8x - 1) = 0$
 $x = -\frac{5}{6}, \frac{1}{8}$

4. $40x^2 + 112x + 10 = -62$
 $40x^2 + 112x + 72 = 0$
 $(8x + 8)(5x + 9) = 0$
 $x = -1, -1 \frac{4}{5}$

10. $32x^2 - 16x + 1 = -1$
 $32x^2 - 16x + 2 = 0$
 $(4x - 1)(8x - 2) = 0$
 $x = \frac{1}{4}$

5. $4x^2 - 11x + 4 = -3$
 $4x^2 - 11x + 7 = 0$
 $(4x - 7)(x - 1) = 0$
 $x = 1 \frac{3}{4}, 1$

11. $63x^2 - 91x + 15 = -13$
 $63x^2 - 91x + 28 = 0$
 $(7x - 7)(9x - 4) = 0$
 $x = 1, \frac{4}{9}$

6. $21x^2 - 10x - 15 = 9$
 $21x^2 - 10x - 24 = 0$
 $(7x + 6)(3x - 4) = 0$
 $x = -\frac{6}{7}, 1 \frac{1}{3}$

12. $30x^2 - 4x - 1 = 1$
 $30x^2 - 4x - 2 = 0$
 $(5x + 1)(6x - 2) = 0$
 $x = -\frac{1}{5}, \frac{1}{3}$