

Résolution d'Équations Quadratiques (A)

Calculer les solutions des équations suivantes.

1. $24x^2 + 18x - 1 = 5$

7. $16x^2 - 24x + 5 = -3$

2. $72x^2 - 23x - 3 = 1$

8. $30x^2 + 7x - 10 = 5$

3. $16x^2 - 74x + 5 = -4$

9. $20x^2 - 12x - 2 = 6$

4. $36x^2 + 26x + 4 = 0$

10. $12x^2 - 25x - 4 = 3$

5. $24x^2 - x - 2 = 1$

11. $12x^2 + 40x + 15 = -17$

6. $45x^2 - 19x + 1 = -1$

12. $54x^2 + 3x - 2 = 33$

Résolution d'Équations Quadratiques (A) Réponses

Calculer les solutions des équations suivantes.

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

7. $16x^2 - 24x + 5 = -3$
 $16x^2 - 24x + 8 = 0$
 $(8x - 8)(2x - 1) = 0$
 $x = 1, 1/2$

2. $72x^2 - 23x - 3 = 1$
 $72x^2 - 23x - 4 = 0$
 $(8x + 1)(9x - 4) = 0$
 $x = -1/8, 4/9$

8. $30x^2 + 7x - 10 = 5$
 $30x^2 + 7x - 15 = 0$
 $(5x - 3)(6x + 5) = 0$
 $x = 3/5, -5/6$

3. $16x^2 - 74x + 5 = -4$
 $16x^2 - 74x + 9 = 0$
 $(2x - 9)(8x - 1) = 0$
 $x = 4 1/2, 1/8$

9. $20x^2 - 12x - 2 = 6$
 $20x^2 - 12x - 8 = 0$
 $(5x + 2)(4x - 4) = 0$
 $x = -2/5, 1$

4. $36x^2 + 26x + 4 = 0$
 $36x^2 + 26x + 4 = 0$
 $(4x + 2)(9x + 2) = 0$
 $x = -1/2, -2/9$

10. $12x^2 - 25x - 4 = 3$
 $12x^2 - 25x - 7 = 0$
 $(4x + 1)(3x - 7) = 0$
 $x = -1/4, 2 1/3$

5. $24x^2 - x - 2 = 1$
 $24x^2 - x - 3 = 0$
 $(8x - 3)(3x + 1) = 0$
 $x = 3/8, -1/3$

11. $12x^2 + 40x + 15 = -17$
 $12x^2 + 40x + 32 = 0$
 $(6x + 8)(2x + 4) = 0$
 $x = -1 1/3, -2$

6. $45x^2 - 19x + 1 = -1$
 $45x^2 - 19x + 2 = 0$
 $(5x - 1)(9x - 2) = 0$
 $x = 1/5, 2/9$

12. $54x^2 + 3x - 2 = 33$
 $54x^2 + 3x - 35 = 0$
 $(6x + 5)(9x - 7) = 0$
 $x = -5/6, 7/9$