

Résolution d'Équations Quadratiques (A)

Calculer les solutions des équations suivantes.

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

7. $2x^2 + 10x + 4 = -8$

2. $x^2 + 4x - 4 = 1$

8. $2x^2 - 8x - 57 = 7$

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

9. $2x^2 - 7x + 4 = -2$

4. $x^2 - 9x + 6 = -2$

10. $4x^2 - 22x + 17 = -7$

5. $4x^2 + 2x - 1 = 1$

11. $4x^2 - 30x + 30 = -24$

6. $x^2 - x - 43 = 13$

12. $2x^2 + 14x + 13 = -7$

Résolution d'Équations Quadratiques (A) Réponses

Calculer les solutions des équations suivantes.

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

7. $2x^2 + 10x + 4 = -8$
 $2x^2 + 10x + 12 = 0$
 $(x + 2)(2x + 6) = 0$
 $x = -2, -3$

2. $x^2 + 4x - 4 = 1$
 $x^2 + 4x - 5 = 0$
 $(x - 1)(x + 5) = 0$
 $x = 1, -5$

8. $2x^2 - 8x - 57 = 7$
 $2x^2 - 8x - 64 = 0$
 $(2x + 8)(x - 8) = 0$
 $x = -4, 8$

3. $4x^2 - 5 = 11$
 $4x^2 - 16 = 0$
 $(2x - 4)(2x + 4) = 0$
 $x = 2, -2$

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

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

10. $4x^2 - 22x + 17 = -7$
 $4x^2 - 22x + 24 = 0$
 $(2x - 8)(2x - 3) = 0$
 $x = 4, 1 \frac{1}{2}$

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

11. $4x^2 - 30x + 30 = -24$
 $4x^2 - 30x + 54 = 0$
 $(2x - 9)(2x - 6) = 0$
 $x = 4 \frac{1}{2}, 3$

6. $x^2 - x - 43 = 13$
 $x^2 - x - 56 = 0$
 $(x - 8)(x + 7) = 0$
 $x = 8, -7$

12. $2x^2 + 14x + 13 = -7$
 $2x^2 + 14x + 20 = 0$
 $(2x + 4)(x + 5) = 0$
 $x = -2, -5$