

Résolution d'Équations Quadratiques (A)

Calculer les solutions des équations suivantes.

1. $2x^2 + 2x - 24 = 0$

7. $2x^2 + 3x - 5 = 0$

2. $2x^2 + 3x - 5 = 0$

8. $2x^2 - 17x + 36 = 0$

3. $2x^2 - 14x - 36 = 0$

9. $4x^2 + 22x + 28 = 0$

4. $4x^2 - 14x - 8 = 0$

10. $2x^2 + 12x - 54 = 0$

5. $4x^2 + 8x - 21 = 0$

11. $2x^2 + 10x - 72 = 0$

6. $2x^2 - 15x + 27 = 0$

12. $x^2 - 16x + 64 = 0$

Résolution d'Équations Quadratiques (A) Réponses

Calculer les solutions des équations suivantes.

1. $2x^2 + 2x - 24 = 0$
 $(2x + 8)(x - 3) = 0$
 $x = -4, 3$

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

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

8. $2x^2 - 17x + 36 = 0$
 $(x - 4)(2x - 9) = 0$
 $x = 4, 4 \frac{1}{2}$

3. $2x^2 - 14x - 36 = 0$
 $(2x + 4)(x - 9) = 0$
 $x = -2, 9$

9. $4x^2 + 22x + 28 = 0$
 $(2x + 7)(2x + 4) = 0$
 $x = -3 \frac{1}{2}, -2$

4. $4x^2 - 14x - 8 = 0$
 $(2x - 8)(2x + 1) = 0$
 $x = 4, -\frac{1}{2}$

10. $2x^2 + 12x - 54 = 0$
 $(2x - 6)(x + 9) = 0$
 $x = 3, -9$

5. $4x^2 + 8x - 21 = 0$
 $(2x + 7)(2x - 3) = 0$
 $x = -3 \frac{1}{2}, 1 \frac{1}{2}$

11. $2x^2 + 10x - 72 = 0$
 $(2x - 8)(x + 9) = 0$
 $x = 4, -9$

6. $2x^2 - 15x + 27 = 0$
 $(x - 3)(2x - 9) = 0$
 $x = 3, 4 \frac{1}{2}$

12. $x^2 - 16x + 64 = 0$
 $(x - 8)(x - 8) = 0$
 $x = 8$

Résolution d'Équations Quadratiques (B)

Calculer les solutions des équations suivantes.

1. $4x^2 - 22x + 28 = 0$

7. $2x^2 + 6x + 4 = 0$

2. $2x^2 + 10x + 12 = 0$

8. $2x^2 + 7x + 5 = 0$

3. $4x^2 + 2x - 12 = 0$

9. $x^2 + x - 30 = 0$

4. $2x^2 + x - 1 = 0$

10. $2x^2 + 11x - 40 = 0$

5. $2x^2 + 10x + 12 = 0$

11. $x^2 - 14x + 48 = 0$

6. $4x^2 + 2x - 56 = 0$

12. $2x^2 - 8x + 8 = 0$

Résolution d'Équations Quadratiques (B) Réponses

Calculer les solutions des équations suivantes.

1. $4x^2 - 22x + 28 = 0$
 $(2x - 7)(2x - 4) = 0$
 $x = 3 \frac{1}{2}, 2$

7. $2x^2 + 6x + 4 = 0$
 $(2x + 2)(x + 2) = 0$
 $x = -1, -2$

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

8. $2x^2 + 7x + 5 = 0$
 $(2x + 5)(x + 1) = 0$
 $x = -2 \frac{1}{2}, -1$

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

9. $x^2 + x - 30 = 0$
 $(x + 6)(x - 5) = 0$
 $x = -6, 5$

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

10. $2x^2 + 11x - 40 = 0$
 $(x + 8)(2x - 5) = 0$
 $x = -8, 2 \frac{1}{2}$

5. $2x^2 + 10x + 12 = 0$
 $(2x + 4)(x + 3) = 0$
 $x = -2, -3$

11. $x^2 - 14x + 48 = 0$
 $(x - 8)(x - 6) = 0$
 $x = 8, 6$

6. $4x^2 + 2x - 56 = 0$
 $(2x + 8)(2x - 7) = 0$
 $x = -4, 3 \frac{1}{2}$

12. $2x^2 - 8x + 8 = 0$
 $(x - 2)(2x - 4) = 0$
 $x = 2$

Résolution d'Équations Quadratiques (C)

Calculer les solutions des équations suivantes.

1. $4x^2 - 10x + 6 = 0$

7. $x^2 + 6x + 9 = 0$

2. $x^2 - 10x + 25 = 0$

8. $4x^2 - 28x + 48 = 0$

3. $4x^2 - 10x + 4 = 0$

9. $2x^2 - 6x + 4 = 0$

4. $2x^2 - 8 = 0$

10. $2x^2 + 27x + 81 = 0$

5. $2x^2 - 19x + 9 = 0$

11. $2x^2 + 5x + 3 = 0$

6. $4x^2 + 4x - 35 = 0$

12. $x^2 + 11x + 28 = 0$

Résolution d'Équations Quadratiques (C) Réponses

Calculer les solutions des équations suivantes.

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

7. $x^2 + 6x + 9 = 0$
 $(x + 3)(x + 3) = 0$
 $x = -3$

2. $x^2 - 10x + 25 = 0$
 $(x - 5)(x - 5) = 0$
 $x = 5$

8. $4x^2 - 28x + 48 = 0$
 $(2x - 8)(2x - 6) = 0$
 $x = 4, 3$

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

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

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

10. $2x^2 + 27x + 81 = 0$
 $(2x + 9)(x + 9) = 0$
 $x = -4\frac{1}{2}, -9$

5. $2x^2 - 19x + 9 = 0$
 $(x - 9)(2x - 1) = 0$
 $x = 9, \frac{1}{2}$

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

6. $4x^2 + 4x - 35 = 0$
 $(2x + 7)(2x - 5) = 0$
 $x = -3\frac{1}{2}, 2\frac{1}{2}$

12. $x^2 + 11x + 28 = 0$
 $(x + 7)(x + 4) = 0$
 $x = -7, -4$

Résolution d'Équations Quadratiques (D)

Calculer les solutions des équations suivantes.

1. $x^2 + 4x - 45 = 0$

7. $4x^2 - 12x - 7 = 0$

2. $4x^2 - 12x - 7 = 0$

8. $2x^2 + 5x - 18 = 0$

3. $2x^2 + 2x - 4 = 0$

9. $2x^2 + 20x + 32 = 0$

4. $4x^2 + 6x - 40 = 0$

10. $2x^2 - 4x - 48 = 0$

5. $x^2 + 3x - 4 = 0$

11. $2x^2 + 25x + 72 = 0$

6. $2x^2 - 4x - 48 = 0$

12. $2x^2 - 5x + 3 = 0$

Résolution d'Équations Quadratiques (D) Réponses

Calculer les solutions des équations suivantes.

1. $x^2 + 4x - 45 = 0$
 $(x - 5)(x + 9) = 0$
 $x = 5, -9$

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

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

8. $2x^2 + 5x - 18 = 0$
 $(x - 2)(2x + 9) = 0$
 $x = 2, -4\ 1/2$

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

9. $2x^2 + 20x + 32 = 0$
 $(x + 8)(2x + 4) = 0$
 $x = -8, -2$

4. $4x^2 + 6x - 40 = 0$
 $(2x + 8)(2x - 5) = 0$
 $x = -4, 2\ 1/2$

10. $2x^2 - 4x - 48 = 0$
 $(x - 6)(2x + 8) = 0$
 $x = 6, -4$

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

11. $2x^2 + 25x + 72 = 0$
 $(x + 8)(2x + 9) = 0$
 $x = -8, -4\ 1/2$

6. $2x^2 - 4x - 48 = 0$
 $(x - 6)(2x + 8) = 0$
 $x = 6, -4$

12. $2x^2 - 5x + 3 = 0$
 $(2x - 3)(x - 1) = 0$
 $x = 1\ 1/2, 1$

Résolution d'Équations Quadratiques (E)

Calculer les solutions des équations suivantes.

1. $x^2 - 15x + 56 = 0$

7. $4x^2 + 2x - 56 = 0$

2. $2x^2 - 24x + 54 = 0$

8. $4x^2 - 2x - 20 = 0$

3. $4x^2 - 4x - 3 = 0$

9. $2x^2 - 13x + 18 = 0$

4. $4x^2 - 2x - 72 = 0$

10. $2x^2 - 2x - 4 = 0$

5. $2x^2 - 13x - 45 = 0$

11. $x^2 - x - 72 = 0$

6. $x^2 - 6x + 8 = 0$

12. $x^2 + 8x + 16 = 0$

Résolution d'Équations Quadratiques (E) Réponses

Calculer les solutions des équations suivantes.

1. $x^2 - 15x + 56 = 0$
 $(x - 8)(x - 7) = 0$
 $x = 8, 7$

7. $4x^2 + 2x - 56 = 0$
 $(2x + 8)(2x - 7) = 0$
 $x = -4, 3 \frac{1}{2}$

2. $2x^2 - 24x + 54 = 0$
 $(x - 9)(2x - 6) = 0$
 $x = 9, 3$

8. $4x^2 - 2x - 20 = 0$
 $(2x + 4)(2x - 5) = 0$
 $x = -2, 2 \frac{1}{2}$

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

9. $2x^2 - 13x + 18 = 0$
 $(x - 2)(2x - 9) = 0$
 $x = 2, 4 \frac{1}{2}$

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

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

5. $2x^2 - 13x - 45 = 0$
 $(x - 9)(2x + 5) = 0$
 $x = 9, -2 \frac{1}{2}$

11. $x^2 - x - 72 = 0$
 $(x - 9)(x + 8) = 0$
 $x = 9, -8$

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

12. $x^2 + 8x + 16 = 0$
 $(x + 4)(x + 4) = 0$
 $x = -4$

Résolution d'Équations Quadratiques (F)

Calculer les solutions des équations suivantes.

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

7. $2x^2 + 19x + 45 = 0$

2. $4x^2 + 20x + 16 = 0$

8. $2x^2 + x - 45 = 0$

3. $x^2 - 3x - 28 = 0$

9. $2x^2 - 24x + 54 = 0$

4. $2x^2 + 3x - 14 = 0$

10. $4x^2 - 22x + 28 = 0$

5. $4x^2 - 4x - 8 = 0$

11. $4x^2 - 20x + 16 = 0$

6. $2x^2 + 9x + 7 = 0$

12. $2x^2 - 4x - 48 = 0$

Résolution d'Équations Quadratiques (F) Réponses

Calculer les solutions des équations suivantes.

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

7. $2x^2 + 19x + 45 = 0$
 $(x + 5)(2x + 9) = 0$
 $x = -5, -4 \frac{1}{2}$

2. $4x^2 + 20x + 16 = 0$
 $(2x + 2)(2x + 8) = 0$
 $x = -1, -4$

8. $2x^2 + x - 45 = 0$
 $(x + 5)(2x - 9) = 0$
 $x = -5, 4 \frac{1}{2}$

3. $x^2 - 3x - 28 = 0$
 $(x + 4)(x - 7) = 0$
 $x = -4, 7$

9. $2x^2 - 24x + 54 = 0$
 $(x - 9)(2x - 6) = 0$
 $x = 9, 3$

4. $2x^2 + 3x - 14 = 0$
 $(x - 2)(2x + 7) = 0$
 $x = 2, -3 \frac{1}{2}$

10. $4x^2 - 22x + 28 = 0$
 $(2x - 4)(2x - 7) = 0$
 $x = 2, 3 \frac{1}{2}$

5. $4x^2 - 4x - 8 = 0$
 $(2x - 4)(2x + 2) = 0$
 $x = 2, -1$

11. $4x^2 - 20x + 16 = 0$
 $(2x - 2)(2x - 8) = 0$
 $x = 1, 4$

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

12. $2x^2 - 4x - 48 = 0$
 $(x - 6)(2x + 8) = 0$
 $x = 6, -4$

Résolution d'Équations Quadratiques (G)

Calculer les solutions des équations suivantes.

1. $2x^2 + 11x - 21 = 0$

7. $2x^2 + 6x - 8 = 0$

2. $x^2 - 15x + 56 = 0$

8. $2x^2 - 3x + 1 = 0$

3. $x^2 - 5x + 6 = 0$

9. $x^2 - x - 30 = 0$

4. $x^2 - 7x - 8 = 0$

10. $x^2 + 4x + 3 = 0$

5. $x^2 - 16x + 63 = 0$

11. $2x^2 - 9x + 9 = 0$

6. $2x^2 + 10x - 12 = 0$

12. $2x^2 - 19x + 35 = 0$

Résolution d'Équations Quadratiques (G) Réponses

Calculer les solutions des équations suivantes.

1. $2x^2 + 11x - 21 = 0$
 $(x + 7)(2x - 3) = 0$
 $x = -7, 1 \frac{1}{2}$

7. $2x^2 + 6x - 8 = 0$
 $(x - 1)(2x + 8) = 0$
 $x = 1, -4$

2. $x^2 - 15x + 56 = 0$
 $(x - 7)(x - 8) = 0$
 $x = 7, 8$

8. $2x^2 - 3x + 1 = 0$
 $(x - 1)(2x - 1) = 0$
 $x = 1, \frac{1}{2}$

3. $x^2 - 5x + 6 = 0$
 $(x - 2)(x - 3) = 0$
 $x = 2, 3$

9. $x^2 - x - 30 = 0$
 $(x - 6)(x + 5) = 0$
 $x = 6, -5$

4. $x^2 - 7x - 8 = 0$
 $(x + 1)(x - 8) = 0$
 $x = -1, 8$

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

5. $x^2 - 16x + 63 = 0$
 $(x - 7)(x - 9) = 0$
 $x = 7, 9$

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

6. $2x^2 + 10x - 12 = 0$
 $(x + 6)(2x - 2) = 0$
 $x = -6, 1$

12. $2x^2 - 19x + 35 = 0$
 $(2x - 5)(x - 7) = 0$
 $x = 2 \frac{1}{2}, 7$

Résolution d'Équations Quadratiques (H)

Calculer les solutions des équations suivantes.

1. $2x^2 - 17x + 21 = 0$

7. $x^2 + 11x + 24 = 0$

2. $4x^2 + 2x - 56 = 0$

8. $2x^2 + 5x + 2 = 0$

3. $x^2 - x - 42 = 0$

9. $2x^2 + 17x + 30 = 0$

4. $4x^2 - 6x - 4 = 0$

10. $4x^2 + 4x - 24 = 0$

5. $2x^2 - 7x - 4 = 0$

11. $4x^2 + 8x + 3 = 0$

6. $x^2 + 3x - 40 = 0$

12. $x^2 + x - 20 = 0$

Résolution d'Équations Quadratiques (H) Réponses

Calculer les solutions des équations suivantes.

1. $2x^2 - 17x + 21 = 0$
 $(x - 7)(2x - 3) = 0$
 $x = 7, 1 \frac{1}{2}$

7. $x^2 + 11x + 24 = 0$
 $(x + 8)(x + 3) = 0$
 $x = -8, -3$

2. $4x^2 + 2x - 56 = 0$
 $(2x - 7)(2x + 8) = 0$
 $x = 3 \frac{1}{2}, -4$

8. $2x^2 + 5x + 2 = 0$
 $(2x + 1)(x + 2) = 0$
 $x = -\frac{1}{2}, -2$

3. $x^2 - x - 42 = 0$
 $(x - 7)(x + 6) = 0$
 $x = 7, -6$

9. $2x^2 + 17x + 30 = 0$
 $(2x + 5)(x + 6) = 0$
 $x = -2 \frac{1}{2}, -6$

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

10. $4x^2 + 4x - 24 = 0$
 $(2x + 6)(2x - 4) = 0$
 $x = -3, 2$

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

11. $4x^2 + 8x + 3 = 0$
 $(2x + 1)(2x + 3) = 0$
 $x = -\frac{1}{2}, -1 \frac{1}{2}$

6. $x^2 + 3x - 40 = 0$
 $(x + 8)(x - 5) = 0$
 $x = -8, 5$

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

Résolution d'Équations Quadratiques (I)

Calculer les solutions des équations suivantes.

1. $2x^2 - 11x - 63 = 0$

7. $4x^2 - 6x - 18 = 0$

2. $2x^2 + 21x + 49 = 0$

8. $x^2 + 6x + 9 = 0$

3. $x^2 + 7x + 10 = 0$

9. $2x^2 + 6x - 36 = 0$

4. $2x^2 - 5x - 25 = 0$

10. $2x^2 + 27x + 81 = 0$

5. $4x^2 + 12x + 5 = 0$

11. $2x^2 - 2x - 12 = 0$

6. $x^2 + 5x - 14 = 0$

12. $2x^2 - 19x + 24 = 0$

Résolution d'Équations Quadratiques (I) Réponses

Calculer les solutions des équations suivantes.

1. $2x^2 - 11x - 63 = 0$
 $(2x + 7)(x - 9) = 0$
 $x = -3 \frac{1}{2}, 9$

7. $4x^2 - 6x - 18 = 0$
 $(2x - 6)(2x + 3) = 0$
 $x = 3, -1 \frac{1}{2}$

2. $2x^2 + 21x + 49 = 0$
 $(2x + 7)(x + 7) = 0$
 $x = -3 \frac{1}{2}, -7$

8. $x^2 + 6x + 9 = 0$
 $(x + 3)(x + 3) = 0$
 $x = -3$

3. $x^2 + 7x + 10 = 0$
 $(x + 2)(x + 5) = 0$
 $x = -2, -5$

9. $2x^2 + 6x - 36 = 0$
 $(x + 6)(2x - 6) = 0$
 $x = -6, 3$

4. $2x^2 - 5x - 25 = 0$
 $(x - 5)(2x + 5) = 0$
 $x = 5, -2 \frac{1}{2}$

10. $2x^2 + 27x + 81 = 0$
 $(x + 9)(2x + 9) = 0$
 $x = -9, -4 \frac{1}{2}$

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

11. $2x^2 - 2x - 12 = 0$
 $(2x - 6)(x + 2) = 0$
 $x = 3, -2$

6. $x^2 + 5x - 14 = 0$
 $(x - 2)(x + 7) = 0$
 $x = 2, -7$

12. $2x^2 - 19x + 24 = 0$
 $(x - 8)(2x - 3) = 0$
 $x = 8, 1 \frac{1}{2}$

Résolution d'Équations Quadratiques (J)

Calculer les solutions des équations suivantes.

1. $4x^2 + 24x + 32 = 0$

7. $2x^2 + 13x + 20 = 0$

2. $x^2 + x - 72 = 0$

8. $2x^2 - 15x + 7 = 0$

3. $2x^2 + 11x + 9 = 0$

9. $x^2 - x - 42 = 0$

4. $4x^2 + 14x - 18 = 0$

10. $4x^2 + 26x + 40 = 0$

5. $2x^2 - 20x + 18 = 0$

11. $4x^2 - 12x - 16 = 0$

6. $2x^2 + x - 15 = 0$

12. $4x^2 - 8x + 3 = 0$

Résolution d'Équations Quadratiques (J) Réponses

Calculer les solutions des équations suivantes.

1. $4x^2 + 24x + 32 = 0$
 $(2x + 4)(2x + 8) = 0$
 $x = -2, -4$

7. $2x^2 + 13x + 20 = 0$
 $(2x + 5)(x + 4) = 0$
 $x = -2 \frac{1}{2}, -4$

2. $x^2 + x - 72 = 0$
 $(x + 9)(x - 8) = 0$
 $x = -9, 8$

8. $2x^2 - 15x + 7 = 0$
 $(2x - 1)(x - 7) = 0$
 $x = \frac{1}{2}, 7$

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

9. $x^2 - x - 42 = 0$
 $(x + 6)(x - 7) = 0$
 $x = -6, 7$

4. $4x^2 + 14x - 18 = 0$
 $(2x + 9)(2x - 2) = 0$
 $x = -4 \frac{1}{2}, 1$

10. $4x^2 + 26x + 40 = 0$
 $(2x + 5)(2x + 8) = 0$
 $x = -2 \frac{1}{2}, -4$

5. $2x^2 - 20x + 18 = 0$
 $(x - 9)(2x - 2) = 0$
 $x = 9, 1$

11. $4x^2 - 12x - 16 = 0$
 $(2x + 2)(2x - 8) = 0$
 $x = -1, 4$

6. $2x^2 + x - 15 = 0$
 $(x + 3)(2x - 5) = 0$
 $x = -3, 2 \frac{1}{2}$

12. $4x^2 - 8x + 3 = 0$
 $(2x - 3)(2x - 1) = 0$
 $x = 1 \frac{1}{2}, \frac{1}{2}$