

# Résolution d'Équations Quadratiques (A)

Calculer les solutions des équations suivantes.

1.  $x^2 - 6x + 7 = -1$

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

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

8.  $x^2 - 5x - 6 = 18$

3.  $x^2 - 10x + 7 = -14$

9.  $x^2 + 2x - 3 = 32$

4.  $x^2 - x - 1 = 41$

10.  $x^2 - 5x - 35 = 1$

5.  $x^2 - 2x - 2 = 46$

11.  $x^2 + x - 23 = 7$

6.  $x^2 + 13x + 33 = -3$

12.  $x^2 - 3x - 10 = 44$

## Résolution d'Équations Quadratiques (A) Réponses

Calculer les solutions des équations suivantes.

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

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

2.  $x^2 + 7x + 4 = -6$   
 $x^2 + 7x + 10 = 0$   
 $(x + 5)(x + 2) = 0$   
 $x = -5, -2$

8.  $x^2 - 5x - 6 = 18$   
 $x^2 - 5x - 24 = 0$   
 $(x - 8)(x + 3) = 0$   
 $x = 8, -3$

3.  $x^2 - 10x + 7 = -14$   
 $x^2 - 10x + 21 = 0$   
 $(x - 7)(x - 3) = 0$   
 $x = 7, 3$

9.  $x^2 + 2x - 3 = 32$   
 $x^2 + 2x - 35 = 0$   
 $(x + 7)(x - 5) = 0$   
 $x = -7, 5$

4.  $x^2 - x - 1 = 41$   
 $x^2 - x - 42 = 0$   
 $(x - 7)(x + 6) = 0$   
 $x = 7, -6$

10.  $x^2 - 5x - 35 = 1$   
 $x^2 - 5x - 36 = 0$   
 $(x + 4)(x - 9) = 0$   
 $x = -4, 9$

5.  $x^2 - 2x - 2 = 46$   
 $x^2 - 2x - 48 = 0$   
 $(x - 8)(x + 6) = 0$   
 $x = 8, -6$

11.  $x^2 + x - 23 = 7$   
 $x^2 + x - 30 = 0$   
 $(x + 6)(x - 5) = 0$   
 $x = -6, 5$

6.  $x^2 + 13x + 33 = -3$   
 $x^2 + 13x + 36 = 0$   
 $(x + 9)(x + 4) = 0$   
 $x = -9, -4$

12.  $x^2 - 3x - 10 = 44$   
 $x^2 - 3x - 54 = 0$   
 $(x - 9)(x + 6) = 0$   
 $x = 9, -6$

# Résolution d'Équations Quadratiques (B)

Calculer les solutions des équations suivantes.

1.  $x^2 + x - 7 = 35$

7.  $x^2 + 3x - 12 = 16$

2.  $x^2 - 4x - 6 = 15$

8.  $x^2 - 12x + 2 = -25$

3.  $x^2 - x - 34 = 8$

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

4.  $x^2 - 14x + 15 = -30$

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

5.  $x^2 + 4x - 9 = 3$

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

6.  $x^2 - 5x - 9 = 27$

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

## Résolution d'Équations Quadratiques (B) Réponses

Calculer les solutions des équations suivantes.

1.  $x^2 + x - 7 = 35$   
 $x^2 + x - 42 = 0$   
 $(x - 6)(x + 7) = 0$   
 $x = 6, -7$

7.  $x^2 + 3x - 12 = 16$   
 $x^2 + 3x - 28 = 0$   
 $(x + 7)(x - 4) = 0$   
 $x = -7, 4$

2.  $x^2 - 4x - 6 = 15$   
 $x^2 - 4x - 21 = 0$   
 $(x - 7)(x + 3) = 0$   
 $x = 7, -3$

8.  $x^2 - 12x + 2 = -25$   
 $x^2 - 12x + 27 = 0$   
 $(x - 3)(x - 9) = 0$   
 $x = 3, 9$

3.  $x^2 - x - 34 = 8$   
 $x^2 - x - 42 = 0$   
 $(x - 7)(x + 6) = 0$   
 $x = 7, -6$

9.  $x^2 - 6x + 3 = -5$   
 $x^2 - 6x + 8 = 0$   
 $(x - 2)(x - 4) = 0$   
 $x = 2, 4$

4.  $x^2 - 14x + 15 = -30$   
 $x^2 - 14x + 45 = 0$   
 $(x - 9)(x - 5) = 0$   
 $x = 9, 5$

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

5.  $x^2 + 4x - 9 = 3$   
 $x^2 + 4x - 12 = 0$   
 $(x + 6)(x - 2) = 0$   
 $x = -6, 2$

11.  $x^2 + 9x + 11 = -3$   
 $x^2 + 9x + 14 = 0$   
 $(x + 2)(x + 7) = 0$   
 $x = -2, -7$

6.  $x^2 - 5x - 9 = 27$   
 $x^2 - 5x - 36 = 0$   
 $(x - 9)(x + 4) = 0$   
 $x = 9, -4$

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

# Résolution d'Équations Quadratiques (C)

Calculer les solutions des équations suivantes.

1.  $x^2 + x - 8 = 22$

7.  $x^2 + 9x + 3 = -15$

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

8.  $x^2 - 11x + 9 = -15$

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

9.  $x^2 + 2x - 16 = 8$

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

10.  $x^2 - 18x + 10 = -71$

5.  $x^2 + 7x - 13 = 5$

11.  $x^2 + 3x - 7 = 11$

6.  $x^2 - 7x + 5 = -7$

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

## Résolution d'Équations Quadratiques (C) Réponses

Calculer les solutions des équations suivantes.

1.  $x^2 + x - 8 = 22$   
 $x^2 + x - 30 = 0$   
 $(x - 5)(x + 6) = 0$   
 $x = 5, -6$

7.  $x^2 + 9x + 3 = -15$   
 $x^2 + 9x + 18 = 0$   
 $(x + 6)(x + 3) = 0$   
 $x = -6, -3$

2.  $x^2 + 2x - 10 = 25$   
 $x^2 + 2x - 35 = 0$   
 $(x + 7)(x - 5) = 0$   
 $x = -7, 5$

8.  $x^2 - 11x + 9 = -15$   
 $x^2 - 11x + 24 = 0$   
 $(x - 8)(x - 3) = 0$   
 $x = 8, 3$

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

9.  $x^2 + 2x - 16 = 8$   
 $x^2 + 2x - 24 = 0$   
 $(x - 4)(x + 6) = 0$   
 $x = 4, -6$

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

10.  $x^2 - 18x + 10 = -71$   
 $x^2 - 18x + 81 = 0$   
 $(x - 9)(x - 9) = 0$   
 $x = 9$

5.  $x^2 + 7x - 13 = 5$   
 $x^2 + 7x - 18 = 0$   
 $(x + 9)(x - 2) = 0$   
 $x = -9, 2$

11.  $x^2 + 3x - 7 = 11$   
 $x^2 + 3x - 18 = 0$   
 $(x + 6)(x - 3) = 0$   
 $x = -6, 3$

6.  $x^2 - 7x + 5 = -7$   
 $x^2 - 7x + 12 = 0$   
 $(x - 4)(x - 3) = 0$   
 $x = 4, 3$

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

# Résolution d'Équations Quadratiques (D)

Calculer les solutions des équations suivantes.

1.  $x^2 - 3x - 25 = 15$

7.  $x^2 - 9x + 5 = -13$

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

8.  $x^2 + 6x = -5$

3.  $x^2 - 2x - 12 = 36$

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

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

10.  $x^2 + 14x + 37 = -11$

5.  $x^2 - 4x - 7 = 38$

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

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

12.  $x^2 + 3x - 8 = 20$

## Résolution d'Équations Quadratiques (D) Réponses

Calculer les solutions des équations suivantes.

1.  $x^2 - 3x - 25 = 15$   
 $x^2 - 3x - 40 = 0$   
 $(x + 5)(x - 8) = 0$   
 $x = -5, 8$

7.  $x^2 - 9x + 5 = -13$   
 $x^2 - 9x + 18 = 0$   
 $(x - 6)(x - 3) = 0$   
 $x = 6, 3$

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

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

3.  $x^2 - 2x - 12 = 36$   
 $x^2 - 2x - 48 = 0$   
 $(x - 8)(x + 6) = 0$   
 $x = 8, -6$

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

4.  $x^2 - 2x - 11 = 4$   
 $x^2 - 2x - 15 = 0$   
 $(x - 5)(x + 3) = 0$   
 $x = 5, -3$

10.  $x^2 + 14x + 37 = -11$   
 $x^2 + 14x + 48 = 0$   
 $(x + 6)(x + 8) = 0$   
 $x = -6, -8$

5.  $x^2 - 4x - 7 = 38$   
 $x^2 - 4x - 45 = 0$   
 $(x - 9)(x + 5) = 0$   
 $x = 9, -5$

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

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

12.  $x^2 + 3x - 8 = 20$   
 $x^2 + 3x - 28 = 0$   
 $(x + 7)(x - 4) = 0$   
 $x = -7, 4$

# Résolution d'Équations Quadratiques (E)

Calculer les solutions des équations suivantes.

1.  $x^2 + 17x + 69 = -3$

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

2.  $x^2 + 7x - 16 = 2$

8.  $x^2 - 3x - 22 = 6$

3.  $x^2 - 11x + 7 = -17$

9.  $x^2 - 18x + 80 = -1$

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

10.  $x^2 - 16x + 39 = -25$

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

11.  $x^2 + 14x + 3 = -46$

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

12.  $x^2 + 13x + 3 = -33$

## Résolution d'Équations Quadratiques (E) Réponses

Calculer les solutions des équations suivantes.

1.  $x^2 + 17x + 69 = -3$   
 $x^2 + 17x + 72 = 0$   
 $(x + 9)(x + 8) = 0$   
 $x = -9, -8$

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

2.  $x^2 + 7x - 16 = 2$   
 $x^2 + 7x - 18 = 0$   
 $(x + 9)(x - 2) = 0$   
 $x = -9, 2$

8.  $x^2 - 3x - 22 = 6$   
 $x^2 - 3x - 28 = 0$   
 $(x + 4)(x - 7) = 0$   
 $x = -4, 7$

3.  $x^2 - 11x + 7 = -17$   
 $x^2 - 11x + 24 = 0$   
 $(x - 8)(x - 3) = 0$   
 $x = 8, 3$

9.  $x^2 - 18x + 80 = -1$   
 $x^2 - 18x + 81 = 0$   
 $(x - 9)(x - 9) = 0$   
 $x = 9$

4.  $x^2 + 9x + 9 = -9$   
 $x^2 + 9x + 18 = 0$   
 $(x + 3)(x + 6) = 0$   
 $x = -3, -6$

10.  $x^2 - 16x + 39 = -25$   
 $x^2 - 16x + 64 = 0$   
 $(x - 8)(x - 8) = 0$   
 $x = 8$

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

11.  $x^2 + 14x + 3 = -46$   
 $x^2 + 14x + 49 = 0$   
 $(x + 7)(x + 7) = 0$   
 $x = -7$

6.  $x^2 - 9x + 6 = -12$   
 $x^2 - 9x + 18 = 0$   
 $(x - 6)(x - 3) = 0$   
 $x = 6, 3$

12.  $x^2 + 13x + 3 = -33$   
 $x^2 + 13x + 36 = 0$   
 $(x + 4)(x + 9) = 0$   
 $x = -4, -9$

# Résolution d'Équations Quadratiques (F)

Calculer les solutions des équations suivantes.

1.  $x^2 - 4x - 3 = 9$

7.  $x^2 - 4x + 1 = -3$

2.  $x^2 - 15x + 29 = -25$

8.  $x^2 - 4x - 19 = 13$

3.  $x^2 - 9x + 6 = -12$

9.  $x^2 - 8x + 13 = -2$

4.  $x^2 - 10x + 10 = -14$

10.  $x^2 - 18x + 45 = -36$

5.  $x^2 - 13x + 12 = -24$

11.  $x^2 - 7x + 9 = -3$

6.  $x^2 - 25 = 56$

12.  $x^2 - 5x - 24 = 12$

## Résolution d'Équations Quadratiques (F) Réponses

Calculer les solutions des équations suivantes.

1.  $x^2 - 4x - 3 = 9$   
 $x^2 - 4x - 12 = 0$   
 $(x - 6)(x + 2) = 0$   
 $x = 6, -2$

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

2.  $x^2 - 15x + 29 = -25$   
 $x^2 - 15x + 54 = 0$   
 $(x - 6)(x - 9) = 0$   
 $x = 6, 9$

8.  $x^2 - 4x - 19 = 13$   
 $x^2 - 4x - 32 = 0$   
 $(x + 4)(x - 8) = 0$   
 $x = -4, 8$

3.  $x^2 - 9x + 6 = -12$   
 $x^2 - 9x + 18 = 0$   
 $(x - 6)(x - 3) = 0$   
 $x = 6, 3$

9.  $x^2 - 8x + 13 = -2$   
 $x^2 - 8x + 15 = 0$   
 $(x - 5)(x - 3) = 0$   
 $x = 5, 3$

4.  $x^2 - 10x + 10 = -14$   
 $x^2 - 10x + 24 = 0$   
 $(x - 6)(x - 4) = 0$   
 $x = 6, 4$

10.  $x^2 - 18x + 45 = -36$   
 $x^2 - 18x + 81 = 0$   
 $(x - 9)(x - 9) = 0$   
 $x = 9$

5.  $x^2 - 13x + 12 = -24$   
 $x^2 - 13x + 36 = 0$   
 $(x - 4)(x - 9) = 0$   
 $x = 4, 9$

11.  $x^2 - 7x + 9 = -3$   
 $x^2 - 7x + 12 = 0$   
 $(x - 3)(x - 4) = 0$   
 $x = 3, 4$

6.  $x^2 - 25 = 56$   
 $x^2 - 81 = 0$   
 $(x + 9)(x - 9) = 0$   
 $x = -9, 9$

12.  $x^2 - 5x - 24 = 12$   
 $x^2 - 5x - 36 = 0$   
 $(x - 9)(x + 4) = 0$   
 $x = 9, -4$

# Résolution d'Équations Quadratiques (G)

Calculer les solutions des équations suivantes.

1.  $x^2 - x - 15 = 27$

7.  $x^2 + x - 39 = 3$

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

8.  $x^2 + 13x + 32 = -10$

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

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

4.  $x^2 + 5x - 5 = 31$

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

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

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

6.  $x^2 - 1 = 0$

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

## Résolution d'Équations Quadratiques (G) Réponses

Calculer les solutions des équations suivantes.

1.  $x^2 - x - 15 = 27$   
 $x^2 - x - 42 = 0$   
 $(x - 7)(x + 6) = 0$   
 $x = 7, -6$

7.  $x^2 + x - 39 = 3$   
 $x^2 + x - 42 = 0$   
 $(x + 7)(x - 6) = 0$   
 $x = -7, 6$

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

8.  $x^2 + 13x + 32 = -10$   
 $x^2 + 13x + 42 = 0$   
 $(x + 7)(x + 6) = 0$   
 $x = -7, -6$

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

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

4.  $x^2 + 5x - 5 = 31$   
 $x^2 + 5x - 36 = 0$   
 $(x + 9)(x - 4) = 0$   
 $x = -9, 4$

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

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

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

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

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

# Résolution d'Équations Quadratiques (H)

Calculer les solutions des équations suivantes.

1.  $x^2 - 6x - 4 = 3$

7.  $x^2 - 12x + 15 = -17$

2.  $x^2 + 18x + 56 = -25$

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

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

9.  $x^2 + 8x + 4 = -12$

4.  $x^2 - 3x - 1 = 27$

10.  $x^2 - 13x + 16 = -24$

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

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

6.  $x^2 + 12x + 2 = -34$

12.  $x^2 - 6x + 6 = -3$

## Résolution d'Équations Quadratiques (H) Réponses

Calculer les solutions des équations suivantes.

1.  $x^2 - 6x - 4 = 3$   
 $x^2 - 6x - 7 = 0$   
 $(x + 1)(x - 7) = 0$   
 $x = -1, 7$

7.  $x^2 - 12x + 15 = -17$   
 $x^2 - 12x + 32 = 0$   
 $(x - 4)(x - 8) = 0$   
 $x = 4, 8$

2.  $x^2 + 18x + 56 = -25$   
 $x^2 + 18x + 81 = 0$   
 $(x + 9)(x + 9) = 0$   
 $x = -9$

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

3.  $x^2 + 7x - 2 = 16$   
 $x^2 + 7x - 18 = 0$   
 $(x + 9)(x - 2) = 0$   
 $x = -9, 2$

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

4.  $x^2 - 3x - 1 = 27$   
 $x^2 - 3x - 28 = 0$   
 $(x - 7)(x + 4) = 0$   
 $x = 7, -4$

10.  $x^2 - 13x + 16 = -24$   
 $x^2 - 13x + 40 = 0$   
 $(x - 5)(x - 8) = 0$   
 $x = 5, 8$

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

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

6.  $x^2 + 12x + 2 = -34$   
 $x^2 + 12x + 36 = 0$   
 $(x + 6)(x + 6) = 0$   
 $x = -6$

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

# Résolution d'Équations Quadratiques (I)

Calculer les solutions des équations suivantes.

1.  $x^2 + 2x - 8 = 27$

7.  $x^2 + 6x + 4 = -1$

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

8.  $x^2 + x - 25 = 17$

3.  $x^2 - 15x + 32 = -24$

9.  $x^2 + 14x + 36 = -9$

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

10.  $x^2 - 8 = 17$

5.  $x^2 + 3x - 4 = 36$

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

6.  $x^2 + 9x + 3 = -5$

12.  $x^2 - 22 = 14$

## Résolution d'Équations Quadratiques (I) Réponses

Calculer les solutions des équations suivantes.

1.  $x^2 + 2x - 8 = 27$   
 $x^2 + 2x - 35 = 0$   
 $(x + 7)(x - 5) = 0$   
 $x = -7, 5$

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

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

8.  $x^2 + x - 25 = 17$   
 $x^2 + x - 42 = 0$   
 $(x + 7)(x - 6) = 0$   
 $x = -7, 6$

3.  $x^2 - 15x + 32 = -24$   
 $x^2 - 15x + 56 = 0$   
 $(x - 8)(x - 7) = 0$   
 $x = 8, 7$

9.  $x^2 + 14x + 36 = -9$   
 $x^2 + 14x + 45 = 0$   
 $(x + 5)(x + 9) = 0$   
 $x = -5, -9$

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

10.  $x^2 - 8 = 17$   
 $x^2 - 25 = 0$   
 $(x + 5)(x - 5) = 0$   
 $x = -5, 5$

5.  $x^2 + 3x - 4 = 36$   
 $x^2 + 3x - 40 = 0$   
 $(x - 5)(x + 8) = 0$   
 $x = 5, -8$

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

6.  $x^2 + 9x + 3 = -5$   
 $x^2 + 9x + 8 = 0$   
 $(x + 1)(x + 8) = 0$   
 $x = -1, -8$

12.  $x^2 - 22 = 14$   
 $x^2 - 36 = 0$   
 $(x + 6)(x - 6) = 0$   
 $x = -6, 6$

# Résolution d'Équations Quadratiques (J)

Calculer les solutions des équations suivantes.

1.  $x^2 - 13x + 17 = -25$

7.  $x^2 - 15x + 43 = -11$

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

8.  $x^2 - 10x + 2 = -19$

3.  $x^2 + 2x - 14 = 21$

9.  $x^2 + 7x - 11 = 7$

4.  $x^2 + 6x + 2 = -3$

10.  $x^2 - 2x - 19 = 29$

5.  $x^2 + 12x + 23 = -4$

11.  $x^2 - 7x - 5 = 3$

6.  $x^2 + 12x + 33 = -2$

12.  $x^2 + 17x + 38 = -34$

## Résolution d'Équations Quadratiques (J) Réponses

Calculer les solutions des équations suivantes.

1.  $x^2 - 13x + 17 = -25$   
 $x^2 - 13x + 42 = 0$   
 $(x - 6)(x - 7) = 0$   
 $x = 6, 7$

7.  $x^2 - 15x + 43 = -11$   
 $x^2 - 15x + 54 = 0$   
 $(x - 6)(x - 9) = 0$   
 $x = 6, 9$

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

8.  $x^2 - 10x + 2 = -19$   
 $x^2 - 10x + 21 = 0$   
 $(x - 7)(x - 3) = 0$   
 $x = 7, 3$

3.  $x^2 + 2x - 14 = 21$   
 $x^2 + 2x - 35 = 0$   
 $(x - 5)(x + 7) = 0$   
 $x = 5, -7$

9.  $x^2 + 7x - 11 = 7$   
 $x^2 + 7x - 18 = 0$   
 $(x + 9)(x - 2) = 0$   
 $x = -9, 2$

4.  $x^2 + 6x + 2 = -3$   
 $x^2 + 6x + 5 = 0$   
 $(x + 1)(x + 5) = 0$   
 $x = -1, -5$

10.  $x^2 - 2x - 19 = 29$   
 $x^2 - 2x - 48 = 0$   
 $(x - 8)(x + 6) = 0$   
 $x = 8, -6$

5.  $x^2 + 12x + 23 = -4$   
 $x^2 + 12x + 27 = 0$   
 $(x + 3)(x + 9) = 0$   
 $x = -3, -9$

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

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

12.  $x^2 + 17x + 38 = -34$   
 $x^2 + 17x + 72 = 0$   
 $(x + 9)(x + 8) = 0$   
 $x = -9, -8$