

# Résolution d'Équations Quadratiques (J)

Calculer les solutions des équations suivantes.

$$1. \quad x^2 - 8x - 3 = 6$$

$$7. \quad -x^2 + 11x - 16 = 2$$

$$2. \quad x^2 + 6x + 2 = -3$$

$$8. \quad x^2 - 2x - 23 = 12$$

$$3. \quad -x^2 + 14x - 28 = 20$$

$$9. \quad -x^2 - 12x - 4 = 23$$

$$4. \quad -x^2 + 15x - 40 = 14$$

$$10. \quad x^2 - 13 = 68$$

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

$$11. \quad -x^2 - 9x - 12 = 6$$

$$6. \quad x^2 + 10x + 10 = -6$$

$$12. \quad x^2 + 2x - 13 = 2$$

## Résolution d'Équations Quadratiques (J) Réponses

Calculer les solutions des équations suivantes.

$$\begin{aligned} 1. \quad & x^2 - 8x - 3 = 6 \\ & x^2 - 8x - 9 = 0 \\ & (x + 1)(x - 9) = 0 \\ & x = -1, 9 \end{aligned}$$

$$\begin{aligned} 2. \quad & x^2 + 6x + 2 = -3 \\ & x^2 + 6x + 5 = 0 \\ & (x + 1)(x + 5) = 0 \\ & x = -1, -5 \end{aligned}$$

$$\begin{aligned} 3. \quad & -x^2 + 14x - 28 = 20 \\ & -x^2 + 14x - 48 = 0 \\ & (x - 6)(x - 8) = 0 \\ & x = 6, 8 \end{aligned}$$

$$\begin{aligned} 4. \quad & -x^2 + 15x - 40 = 14 \\ & -x^2 + 15x - 54 = 0 \\ & -(x - 9)(x - 6) = 0 \\ & x = 9, 6 \end{aligned}$$

$$\begin{aligned} 5. \quad & x^2 - 5 = 4 \\ & x^2 - 9 = 0 \\ & (x + 3)(x - 3) = 0 \\ & x = -3, 3 \end{aligned}$$

$$\begin{aligned} 6. \quad & x^2 + 10x + 10 = -6 \\ & x^2 + 10x + 16 = 0 \\ & (x + 8)(x + 2) = 0 \\ & x = -8, -2 \end{aligned}$$

$$\begin{aligned} 7. \quad & -x^2 + 11x - 16 = 2 \\ & -x^2 + 11x - 18 = 0 \\ & -(x - 2)(x - 9) = 0 \\ & x = 2, 9 \end{aligned}$$

$$\begin{aligned} 8. \quad & x^2 - 2x - 23 = 12 \\ & x^2 - 2x - 35 = 0 \\ & (x - 7)(x + 5) = 0 \\ & x = 7, -5 \end{aligned}$$

$$\begin{aligned} 9. \quad & -x^2 - 12x - 4 = 23 \\ & -x^2 - 12x - 27 = 0 \\ & -(x + 9)(x + 3) = 0 \\ & x = -9, -3 \end{aligned}$$

$$\begin{aligned} 10. \quad & x^2 - 13 = 68 \\ & x^2 - 81 = 0 \\ & (x + 9)(x - 9) = 0 \\ & x = -9, 9 \end{aligned}$$

$$\begin{aligned} 11. \quad & -x^2 - 9x - 12 = 6 \\ & -x^2 - 9x - 18 = 0 \\ & -(x + 6)(x + 3) = 0 \\ & x = -6, -3 \end{aligned}$$

$$\begin{aligned} 12. \quad & x^2 + 2x - 13 = 2 \\ & x^2 + 2x - 15 = 0 \\ & (x - 3)(x + 5) = 0 \\ & x = 3, -5 \end{aligned}$$