

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