

Résolution d'Équations Quadratiques (F)

Calculer les solutions des équations suivantes.

1. $-4x^2 + 22x - 11 = 7$

7. $2x^2 - 22x + 47 = -1$

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

8. $-2x^2 - 15x - 3 = 4$

3. $2x^2 - 4x - 6 = 10$

9. $-2x^2 + 11x - 6 = 6$

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

10. $2x^2 + 20x + 3 = -15$

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

11. $2x^2 + 19x + 33 = -12$

6. $4x^2 + 30x + 46 = -10$

12. $-2x^2 - 15x - 16 = 2$

Résolution d'Équations Quadratiques (F) Réponses

Calculer les solutions des équations suivantes.

1. $-4x^2 + 22x - 11 = 7$
 $-4x^2 + 22x - 18 = 0$
 $-(2x - 2)(2x - 9) = 0$
 $x = 1, 4 \frac{1}{2}$

7. $2x^2 - 22x + 47 = -1$
 $2x^2 - 22x + 48 = 0$
 $(2x - 6)(x - 8) = 0$
 $x = 3, 8$

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

8. $-2x^2 - 15x - 3 = 4$
 $-2x^2 - 15x - 7 = 0$
 $-(2x + 1)(x + 7) = 0$
 $x = -\frac{1}{2}, -7$

3. $2x^2 - 4x - 6 = 10$
 $2x^2 - 4x - 16 = 0$
 $(x - 4)(2x + 4) = 0$
 $x = 4, -2$

9. $-2x^2 + 11x - 6 = 6$
 $-2x^2 + 11x - 12 = 0$
 $-(2x - 3)(x - 4) = 0$
 $x = 1 \frac{1}{2}, 4$

4. $x^2 + 8x - 2 = 7$
 $x^2 + 8x - 9 = 0$
 $(x - 1)(x + 9) = 0$
 $x = 1, -9$

10. $2x^2 + 20x + 3 = -15$
 $2x^2 + 20x + 18 = 0$
 $(2x + 2)(x + 9) = 0$
 $x = -1, -9$

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

11. $2x^2 + 19x + 33 = -12$
 $2x^2 + 19x + 45 = 0$
 $(x + 5)(2x + 9) = 0$
 $x = -5, -4 \frac{1}{2}$

6. $4x^2 + 30x + 46 = -10$
 $4x^2 + 30x + 56 = 0$
 $(2x + 7)(2x + 8) = 0$
 $x = -3 \frac{1}{2}, -4$

12. $-2x^2 - 15x - 16 = 2$
 $-2x^2 - 15x - 18 = 0$
 $-(x + 6)(2x + 3) = 0$
 $x = -6, -1 \frac{1}{2}$