

Résolution d'Équations Quadratiques (J)

Calculer les solutions des équations suivantes.

1. $2x^2 + 16x + 30 = 0$

7. $-10x^2 - 6x + 28 = 0$

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

8. $-7x^2 - 8x + 12 = 0$

3. $-72x^2 - 31x + 28 = 0$

9. $15x^2 + 19x - 10 = 0$

4. $14x^2 + 59x + 35 = 0$

10. $-30x^2 - 77x - 49 = 0$

5. $-8x^2 - 39x - 28 = 0$

11. $-28x^2 + 33x - 9 = 0$

6. $24x^2 - 6x - 63 = 0$

12. $27x^2 - 51x - 28 = 0$

Résolution d'Équations Quadratiques (J) Réponses

Calculer les solutions des équations suivantes.

1. $2x^2 + 16x + 30 = 0$
 $(x + 5)(2x + 6) = 0$
 $x = -5, -3$

7. $-10x^2 - 6x + 28 = 0$
 $-(5x - 7)(2x + 4) = 0$
 $x = 1 \frac{2}{5}, -2$

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

8. $-7x^2 - 8x + 12 = 0$
 $-(7x - 6)(x + 2) = 0$
 $x = \frac{6}{7}, -2$

3. $-72x^2 - 31x + 28 = 0$
 $(9x - 4)(8x + 7) = 0$
 $x = \frac{4}{9}, -\frac{7}{8}$

9. $15x^2 + 19x - 10 = 0$
 $(3x + 5)(5x - 2) = 0$
 $x = -1 \frac{2}{3}, \frac{2}{5}$

4. $14x^2 + 59x + 35 = 0$
 $(7x + 5)(2x + 7) = 0$
 $x = -\frac{5}{7}, -3 \frac{1}{2}$

10. $-30x^2 - 77x - 49 = 0$
 $-(6x + 7)(5x + 7) = 0$
 $x = -1 \frac{1}{6}, -1 \frac{2}{5}$

5. $-8x^2 - 39x - 28 = 0$
 $(x + 4)(8x + 7) = 0$
 $x = -4, -\frac{7}{8}$

11. $-28x^2 + 33x - 9 = 0$
 $-(4x - 3)(7x - 3) = 0$
 $x = \frac{3}{4}, \frac{3}{7}$

6. $24x^2 - 6x - 63 = 0$
 $(6x + 9)(4x - 7) = 0$
 $x = -1 \frac{1}{2}, 1 \frac{3}{4}$

12. $27x^2 - 51x - 28 = 0$
 $(9x + 4)(3x - 7) = 0$
 $x = -\frac{4}{9}, 2 \frac{1}{3}$