

Résolution d'Équations Quadratiques (J)

Calculer les solutions des équations suivantes.

1. $18x^2 + 33x = -9$

7. $-45x^2 + 52x - 5 = 10$

2. $-24x^2 - 53x + 2 = -5$

8. $35x^2 - 26x - 8 = 40$

3. $-32x^2 + 4x + 1 = 0$

9. $45x^2 + 121x + 22 = -50$

4. $-14x^2 + 61x + 8 = -1$

10. $-2x^2 + 15x - 1 = 26$

5. $-6x^2 + 43x - 2 = 5$

11. $-4x^2 + 6x + 16 = -2$

6. $-6x^2 + 12x + 21 = -27$

12. $54x^2 - 12x - 1 = 1$

Résolution d'Équations Quadratiques (J) Réponses

Calculer les solutions des équations suivantes.

1. $18x^2 + 33x = -9$
 $18x^2 + 33x + 9 = 0$
 $(9x + 3)(2x + 3) = 0$
 $x = -1/3, -1\ 1/2$

2. $-24x^2 - 53x + 2 = -5$
 $-24x^2 - 53x + 7 = 0$
 $(3x + 7)(8x - 1) = 0$
 $x = -2\ 1/3, 1/8$

3. $-32x^2 + 4x + 1 = 0$
 $-32x^2 + 4x + 1 = 0$
 $(8x + 1)(4x - 1) = 0$
 $x = -1/8, 1/4$

4. $-14x^2 + 61x + 8 = -1$
 $-14x^2 + 61x + 9 = 0$
 $-(2x - 9)(7x + 1) = 0$
 $x = 4\ 1/2, -1/7$

5. $-6x^2 + 43x - 2 = 5$
 $-6x^2 + 43x - 7 = 0$
 $(x - 7)(6x - 1) = 0$
 $x = 7, 1/6$

6. $-6x^2 + 12x + 21 = -27$
 $-6x^2 + 12x + 48 = 0$
 $(3x + 6)(2x - 8) = 0$
 $x = -2, 4$

7. $-45x^2 + 52x - 5 = 10$
 $-45x^2 + 52x - 15 = 0$
 $-(9x - 5)(5x - 3) = 0$
 $x = 5/9, 3/5$

8. $35x^2 - 26x - 8 = 40$
 $35x^2 - 26x - 48 = 0$
 $(7x + 6)(5x - 8) = 0$
 $x = -6/7, 1\ 3/5$

9. $45x^2 + 121x + 22 = -50$
 $45x^2 + 121x + 72 = 0$
 $(5x + 9)(9x + 8) = 0$
 $x = -1\ 4/5, -8/9$

10. $-2x^2 + 15x - 1 = 26$
 $-2x^2 + 15x - 27 = 0$
 $-(x - 3)(2x - 9) = 0$
 $x = 3, 4\ 1/2$

11. $-4x^2 + 6x + 16 = -2$
 $-4x^2 + 6x + 18 = 0$
 $-(2x - 6)(2x + 3) = 0$
 $x = 3, -1\ 1/2$

12. $54x^2 - 12x - 1 = 1$
 $54x^2 - 12x - 2 = 0$
 $(6x - 2)(9x + 1) = 0$
 $x = 1/3, -1/9$