

Résolution d'Équations Quadratiques (B)

Calculer les solutions des équations suivantes.

1. $-72x^2 + 126x - 3 = 51$

7. $-40x^2 + 22x + 4 = -4$

2. $-56x^2 - 30x + 28 = -26$

8. $4x^2 + 12x - 6 = 1$

3. $9x^2 - 59x + 14 = -16$

9. $4x^2 + 13x + 4 = -6$

4. $36x^2 - 6x - 2 = 4$

10. $-6x^2 + 20x + 7 = -9$

5. $7x^2 + 62x - 2 = 7$

11. $-28x^2 + 72x - 26 = 6$

6. $-9x^2 + 69x - 22 = 20$

12. $-25x^2 - 30x + 3 = -24$

Résolution d'Équations Quadratiques (B) Réponses

Calculer les solutions des équations suivantes.

1. $-72x^2 + 126x - 3 = 51$
 $-72x^2 + 126x - 54 = 0$
 $-(8x - 6)(9x - 9) = 0$
 $x = 3/4, 1$

2. $-56x^2 - 30x + 28 = -26$
 $-56x^2 - 30x + 54 = 0$
 $(7x + 9)(8x - 6) = 0$
 $x = -1 \frac{2}{7}, \frac{3}{4}$

3. $9x^2 - 59x + 14 = -16$
 $9x^2 - 59x + 30 = 0$
 $(x - 6)(9x - 5) = 0$
 $x = 6, \frac{5}{9}$

4. $36x^2 - 6x - 2 = 4$
 $36x^2 - 6x - 6 = 0$
 $(4x - 2)(9x + 3) = 0$
 $x = 1/2, -1/3$

5. $7x^2 + 62x - 2 = 7$
 $7x^2 + 62x - 9 = 0$
 $(x + 9)(7x - 1) = 0$
 $x = -9, 1/7$

6. $-9x^2 + 69x - 22 = 20$
 $-9x^2 + 69x - 42 = 0$
 $(9x - 6)(x - 7) = 0$
 $x = 2/3, 7$

7. $-40x^2 + 22x + 4 = -4$
 $-40x^2 + 22x + 8 = 0$
 $-(8x + 2)(5x - 4) = 0$
 $x = -1/4, 4/5$

8. $4x^2 + 12x - 6 = 1$
 $4x^2 + 12x - 7 = 0$
 $(2x + 7)(2x - 1) = 0$
 $x = -3 \frac{1}{2}, \frac{1}{2}$

9. $4x^2 + 13x + 4 = -6$
 $4x^2 + 13x + 10 = 0$
 $(4x + 5)(x + 2) = 0$
 $x = -1 \frac{1}{4}, -2$

10. $-6x^2 + 20x + 7 = -9$
 $-6x^2 + 20x + 16 = 0$
 $-(6x + 4)(x - 4) = 0$
 $x = -2/3, 4$

11. $-28x^2 + 72x - 26 = 6$
 $-28x^2 + 72x - 32 = 0$
 $-(7x - 4)(4x - 8) = 0$
 $x = 4/7, 2$

12. $-25x^2 - 30x + 3 = -24$
 $-25x^2 - 30x + 27 = 0$
 $-(5x + 9)(5x - 3) = 0$
 $x = -1 \frac{4}{5}, \frac{3}{5}$