

Résolution d'Équations Quadratiques (G)

Calculer les solutions des équations suivantes.

1. $24x^2 - 45x + 15 = -6$

7. $8x^2 - 18x - 16 = 2$

2. $35x^2 + 52x + 9 = 0$

8. $6x^2 - 3x - 15 = 15$

3. $56x^2 + 14x - 17 = 25$

9. $48x^2 - 84x + 13 = -5$

4. $63x^2 - 15x - 8 = 10$

10. $3x^2 - 32x = -64$

5. $12x^2 - 10x - 1 = 1$

11. $54x^2 - 15x - 1 = 3$

6. $24x^2 - 13x - 3 = 4$

12. $64x^2 - 40x - 1 = 5$

Résolution d'Équations Quadratiques (G) Réponses

Calculer les solutions des équations suivantes.

1. $24x^2 - 45x + 15 = -6$
 $24x^2 - 45x + 21 = 0$
 $(8x - 7)(3x - 3) = 0$
 $x = 7/8, 1$

2. $35x^2 + 52x + 9 = 0$
 $35x^2 + 52x + 9 = 0$
 $(7x + 9)(5x + 1) = 0$
 $x = -1 \frac{2}{7}, -1/5$

3. $56x^2 + 14x - 17 = 25$
 $56x^2 + 14x - 42 = 0$
 $(8x - 6)(7x + 7) = 0$
 $x = 3/4, -1$

4. $63x^2 - 15x - 8 = 10$
 $63x^2 - 15x - 18 = 0$
 $(9x - 6)(7x + 3) = 0$
 $x = 2/3, -3/7$

5. $12x^2 - 10x - 1 = 1$
 $12x^2 - 10x - 2 = 0$
 $(2x - 2)(6x + 1) = 0$
 $x = 1, -1/6$

6. $24x^2 - 13x - 3 = 4$
 $24x^2 - 13x - 7 = 0$
 $(8x - 7)(3x + 1) = 0$
 $x = 7/8, -1/3$

7. $8x^2 - 18x - 16 = 2$
 $8x^2 - 18x - 18 = 0$
 $(4x + 3)(2x - 6) = 0$
 $x = -3/4, 3$

8. $6x^2 - 3x - 15 = 15$
 $6x^2 - 3x - 30 = 0$
 $(2x - 5)(3x + 6) = 0$
 $x = 2 \frac{1}{2}, -2$

9. $48x^2 - 84x + 13 = -5$
 $48x^2 - 84x + 18 = 0$
 $(6x - 9)(8x - 2) = 0$
 $x = 1 \frac{1}{2}, 1/4$

10. $3x^2 - 32x = -64$
 $3x^2 - 32x + 64 = 0$
 $(3x - 8)(x - 8) = 0$
 $x = 2 \frac{2}{3}, 8$

11. $54x^2 - 15x - 1 = 3$
 $54x^2 - 15x - 4 = 0$
 $(9x - 4)(6x + 1) = 0$
 $x = 4/9, -1/6$

12. $64x^2 - 40x - 1 = 5$
 $64x^2 - 40x - 6 = 0$
 $(8x - 6)(8x + 1) = 0$
 $x = 3/4, -1/8$