Equacions de Segon Grau

1. $3x^2 - 5x - 6 = 2x^2 - 8x - 8$ $x_1 = -1 \;\; i \;\; x_2 = -2$

2. $(x + 2)(2x - 3) - 4 = 0$ $x_1 = 2 \;\; i \;\; x_2 = -\frac{5}{2}$

3. $\frac{3x - 2}{5} + 7 = \frac{(x + 1)(x - 2)}{3}$ $x_1 = -3{,}47 \;\; i \;\; x_2 = 6{,}27$

4. $2x - 3 = 5 - x^2$ $x_1 = 2 \;\; i \;\; x_2 = -4$

5. $7 - (3x - x^2) = 5 + x$ $x_1 = 3{,}42 \;\; i \;\; x_2 = 0{,}59$

6. $x + 5 \cdot (2 - x) = x^2 + 3$ $x_1 = -5{,}32 \;\; i \;\; x_2 = 1{,}32$

7. $2 \cdot (x - 3) - 3 \cdot (x^2 - 4x) = 0$ $x_1 = 0{,}48 \;\; i \;\; x_2 = 4{,}19$

8. $2x + 1 = x \cdot (x + 2)$ $x_1 = -1 \;\; i \;\; x_2 = 1$

9. $(x + 3) \cdot (2x - 5) + 12 = 0$ $x_1 = 1 \;\; i \;\; x_2 = -\frac{3}{2}$

10. $x \cdot (2x - 1) + 3 = (x - 1) \cdot (x + 1) + 4$ $x_1 = 1 \;\; i \;\; x_2 = 0$

11. $2x^2 - 5x + 7 = x^2 + 3x - 5$ $x_1 = 6 \;\; i \;\; x_2 = 2$

12. $7x + 5x^2 - 6 = 2 - 3x + 4x^2$ $x_1 = 0{,}75 \;\; i \;\; x_2 = -10{,}75$

13. $1 - (x^2 - 3x) = 2 - 5 \cdot (x + 1)$ $x_1 = -0{,}47 \;\; i \;\; x_2 = 8{,}47$

14. $(x - 2) \cdot (1 - 3x) + 7 = 0$ $x_1 = -0{,}57 \;\; i \;\; x_2 = 2{,}91$

15. $(2x + 1)(2x - 1) = 2 \cdot (2x - 1)$ $x_1 = \frac{1}{2} \;\; i \;\; x_2 = \frac{1}{2}$

16. $3x^2 - (7x - 3) = x \cdot (x - 2)$ $x_1 = \frac{3}{2} \;\; i \;\; x_2 = 1$

17. $3 - 2 \cdot (x^2 - 5x + 1) = (x - 2)(x + 1)$ $x_1 = -0{,}26 \;\; i \;\; x_2 = 3{,}92$

18. $\frac{2x + 5}{3} - \frac{7}{6} = \frac{x^2 - 3x}{2}$ $x_1 = -0{,}22 \;\; i \;\; x_2 = 4{,}55$

19. $1 - \frac{2 \cdot (3x - 2)}{9} = \frac{(x + 5)(x - 1)}{6}$ $x_1 = -9{,}45 \;\; i \;\; x_2 = 1{,}45$

20. $\frac{(2x - 3)(x + 1)}{5} - 6 = \frac{3x + 4}{2}$ $x_1 = 7{,}23 \;\; i \;\; x_2 = -2{,}98$

Segon Grau Incompletes

És important que aprengueu a resoldre aquest tipus d'equació sense utilitzar la fórmula general de l'equació de segon grau. Resoleu-les aïllant o traient factor comú.

1. $x^2 - 64 = 0$
2. $3x^2 - 75 = 0$
3. $x^2 + 1 = 0$
4. $7x^2 - 7 = 0$
5. $3x^4 - 48 = 0$
6. $x^2 + 121 = 0$
7. $2x^2 - 162 = 0$
8. $5x^3 + 40 = 0$
9. $x^4 - 625 = 0$
10. $2x^3 + 686 = 0$
11. $x^2 - 25 = 0$
12. $2x^2 - 128 = 0$
13. $3x^2 - 147 = 0$
14. $x^2 + 4 = 0$
15. $7x^3 - 56 = 0$
16. $x^2 - 36 = 0$
17. $-2x^4 + 243 = 0$
18. $x^2 + 100 = 0$
19. $2x^3 + 250 = 0$
20. $3x^2 - 12 = 0$

1. $x^2 - 3x = 0$
2. $5x^2 + 2x = 0$
3. $7x^2 - 6x = 0$
4. $x^2 - 4x = 0$
5. $x^2 - x = 0$
6. $4x^2 + 6x = 0$
7. $2x^2 - 10x = 0$
8. $x^3 - x^2 = 0$
9. $-5x^2 + 7x = 0$
10. $x^2 + 9x = 0$
11. $x^2 - 5x = 0$
12. $8x^2 + 24x = 0$
13. $4x^2 - 2x = 0$
14. $-6x^2 + 10x = 0$
15. $x^3 - 4x = 0$
16. $x^3 + x = 0$
17. $5x^3 - 20x = 0$
18. $-3x^2 + 6x = 0$
19. $2x^3 + 7x^2 = 0$
20. $x^4 - x^2 = 0$