

ECUACIONES DE PRIMER Y SEGUNDO GRADO

1. $3x^2 - 12 = 0$
2. $9x^2 - 36 = 0$
3. $3x^2 - 4x = 0$
4. $\frac{x^2}{3} - \frac{2x}{5} = 0$
5. $4x^2 - 196 = 0$
6. $x^2 - 100 = 0$
7. $2x^2 - 3x = 4x + x^2$
8. $7x^2 - 28 = 0$
9. $x^2 - 1 = 0$
10. $2x^2 - 18 = 0$
11. $\frac{7x}{2} - \frac{2x^2}{3} = \frac{x}{4}$
12. $3x^2 - 2 = x^2 - 52$
13. $3x^2 - 27 = 0$
14. $x^2 - 2x + 15 = 0$
15. $x^2 + 8x + 12 = 0$
16. $x^2 - 8x + 7 = 0$
17. $x^2 + x - 12 = 0$
18. $x^2 + 2x - 15 = 0$
19. $x^2 - 10x + 9 = 0$
20. $x^2 + 6x + 8 = 0$
21. $x^2 - x - 12 = 0$
22. $x^2 + 10x + 25 = 0$
23. $3x^2 - 5x - 2 = 0$
24. $10x^2 - 19x + 6 = 0$
25. $3x^2 + 8x - 3 = 0$
26. $8x^2 + 14x + 5 = 0$
27. $4x^2 + 28x + 49 = 0$
28. $x^2 - x - 30 = 0$
29. $4x^2 - 32 = x^2 - 5$
30. $4(x^2 + 1) - x = -3x^2 + 2x + 8$
31. $7x^2 + x + 1 = 6x^2 + 4x + 5$
32. $\frac{x^2}{2} + \frac{7x}{2} - 7 = x$
33. $\frac{x^2}{3} - \frac{x}{5} = \frac{x^2}{10} + 3x$
34. $3x^2 + x + 2 = 0$
35. $6x^2 - 1 + \frac{2x(3-x)}{3} = \frac{5x^2 - 2}{6} - 4x^2 + 2 + \frac{47}{6}$
36. $\frac{3(x^2 - 11)}{5} - \frac{2(x^2 - 60)}{7} = 36$
37. $2(x-3) - (1-3x) = 4 + 3(x+1)$
38. $5x - 4(x+2) = 3(x+5) - (1-6x)$
39. $\frac{2x+1}{5} - \frac{x-2}{3} = \frac{x-2}{6} + 2$
40. $\frac{x-2}{2} - \frac{2x+5}{4} = x - \frac{1}{2}$
41. $\frac{3x}{5} - \frac{2x}{3} = 3 - \frac{x}{6}$
42. $\frac{1}{2} \left(\frac{x}{2} - \frac{1}{3} \right) - \frac{5}{12} = \frac{x}{6}$
43. $4(1-5x) - (x+1) = 7x - 5$
44. $\frac{x+6}{4} - \frac{1-3x}{12} = \frac{x+2}{3} - \frac{x+1}{6}$
45. $\frac{2}{3} \left(1 - \frac{x}{4} \right) + \frac{1}{2} \left(\frac{2x}{3} + \frac{2}{3} \right) = 0$
46. $\frac{x-3}{5} - 3 = x - \frac{2x+1}{10}$
47. $3x - \frac{x}{4} + \frac{1}{3} = \frac{5x}{6} - 2x$
48. $7x - (1-2x) + 3(x+5) - 2(x-6) = 0$
49. $\frac{x-4}{5} - \frac{x-1}{3} = x + \frac{1}{6}$
50. $\frac{2x+5}{12} - \frac{x-2}{30} = \frac{1}{15}$
51. $\frac{x-3}{5} - \frac{x+2}{10} = \frac{2(x+3)}{5} - 1$
52. $\frac{3}{4} \left(x - \frac{1}{2} \right) - \frac{2}{3} \left(\frac{x}{2} + \frac{1}{4} \right) = \frac{x}{2} + 3$
53. $2 - (x+3) + 5(x-2) = 3(x-5) - (5x+4)$
54. $\frac{x+1}{5} - \frac{x-3}{15} = \frac{x}{3} + \frac{1}{5}$
55. $-8(2x-1) - 4 = -7x - 23$
56. $\frac{x}{9} - \frac{x}{3} = \frac{x+1}{7} - 10$
57. $-4(2x-1) + \frac{3x+1}{2} = -5x - 3$
58. $4(x-3) + \frac{x}{2} = -(x-4) + 1$
59. $3(2x-5) + 8x - 6 = \frac{x}{2} - (5x+3)$
60. $\frac{x-4}{5} - 4(1-2x) - \frac{2-4x}{10} = 2(x-3) + \frac{5x+6}{2}$

SOLUCIONES:

1. 2 y -2
2. 2, y -2
3. 0 y $\frac{4}{3}$
4. 0 y $\frac{6}{5}$
5. 7 y -7
6. 10 y -10
7. 0 y 7
8. 2 y -2
9. 1 y -1
10. 3 y -3
11. 0 y $\frac{39}{8}$
12. sin solución real
13. 3 y -3
14. sin solución real
15. -6 y -2
16. 7 y 1
17. -4 y 3
18. -5 y 3
19. 9 y 1
20. -4 y -2
21. 4 y -3
22. -5 y -5
23. 2 y $-\frac{1}{3}$
24. $\frac{3}{2}$ y $\frac{2}{5}$
25. -3 y $\frac{1}{3}$
26. $-\frac{5}{4}$ y $-\frac{1}{2}$
27. $-\frac{7}{2}$ y $-\frac{7}{2}$
28. 6 y -5
29. -3 y 3
30. 1 y $-\frac{4}{7}$
31. 4 y -1
32. 2 y -7
33. 0 y $\frac{96}{7}$
34. sin solución real
35. 1 y $-\frac{21}{17}$
36. 9 y -9
37. 7
38. $-\frac{11}{4}$
39. -8
40. $-\frac{7}{4}$
41. 30
42. 7
43. $\frac{2}{7}$
44. $-\frac{11}{4}$
45. -6
46. $-\frac{35}{6}$
47. $-\frac{4}{47}$
48. $-\frac{13}{5}$
49. $-\frac{19}{34}$
50. $-\frac{25}{8}$
51. $-\frac{10}{3}$
52. $-\frac{85}{2}$
53. $-\frac{4}{3}$
54. 1
55. 3
56. 27
57. 5
58. $\frac{34}{11}$
59. $\frac{36}{37}$
60. $\frac{20}{41}$