ECUACIONES DE 2º GRADO

1. $x^2-7x+12=0$ Sol: x=3; x=4   2. $x^2-9x+18=0$ Sol: x=3; x=6

3. $x^2-5x+6=0$ Sol: x=2; x=3   4. $x^2+8x+15=0$ Sol: x=-5; x=-3

5. $x^2-6x-27=0$ Sol: x=-3; x=9   6. $x^2-6x+9=0$ Sol: x=3

7. $x^2+6x=-9$ Sol: x=-3   8. $4x^2+4x=3$ Sol:x=1/2;x=-3/2

9. $x^2-9x+14=0$ Sol: x=2; x=7   10. $x^2-6x+8=0$ Sol: x=4; x=2

11. $2x^2+10x-48=0$ Sol: x=3; x=-8   12. $x^2-x=20$ Sol: x=-4; x=5

13. $x^2=5x+6$ Sol: x=6; x=-1   14. $2x^2-5x+3=0$ Sol: x=1; x=3/2

15. $x^2+10x+25=0$ Sol: x=-5   16. $x^2+9=10x$ Sol: x=1; x=9

17. $3x^2-39x+108=0$ Sol: x=4; x=9   18. $2x^2-9x+9=0$ Sol: x=3; x=3/2

19. $3x^2+2x=8$ Sol: x=-2; x=4/3   20. $4x^2+12x+9=0$ Sol: x=-3/2

21. $5x^2+1=6x$ Sol: x=1; x=1/5   22. $6x^2+1=5x$ Sol:x=1/2; x=1/3

23. $6x^2-6=5x$ Sol: x=-2/3; x=3/2   24. $2x^2+7x+6=0$ Sol: x=-2; x=-3/2

25. $x^2=2x+3$ Sol: x=-1; x=3   26. $4x^2+3=8x$ Sol:x=1/2; x=3/2

27. $x^2-x+1/4=0$ Sol: x=1/2   28. $3x^2-16x+5=0$ Sol: x=5; x=1/3

29. $1 - \dfrac{x^2}{3} - \dfrac{3x+2}{3} = 1$ 30. $\dfrac{(x-3)^2}{2} - x + x^2 = x - (x-2)$

31. $\dfrac{1}{x-1} + 3x + 3x^2 - 2 = \dfrac{3}{x-1} + 3x^2$ 32. $(x-3)^2 - \dfrac{x-1}{3} = 2x$

33. $\dfrac{x-3}{3} - \dfrac{1}{x-1} = 3x$ 34. $x - \dfrac{2}{x} + \dfrac{1}{2x} = 5x + 5$

35. $\dfrac{x-3}{x} + 3x - \dfrac{5}{x} = 2x - \dfrac{3}{x} - 3$ 36. $3x - \dfrac{8}{x} + (x-1)^2 = 3(x-2) - (x-5)$

37. $(x-3)(x-2) + \dfrac{x(x-3)}{2} = (x-2)^2$

38. $(x-2)x - \dfrac{x+2}{3} - \dfrac{(x-2)(x+2)}{2} = (x-2)^2 - 4$

39. $(x-3)^2 - \dfrac{x-2}{3} + (3-x)(x-1) = (x-2)^2$

40. $\dfrac{x-1}{x+1} - \dfrac{3+x}{x} = 2$ 41. $\dfrac{x-1}{x+1} - \dfrac{3+x}{x-1} = 2$

42. $x + \dfrac{1}{x-2} = 4$

43. $x^2 - x = \dfrac{2}{9} - \dfrac{2x}{3}$

44. $\dfrac{x^2}{3} + 2 = \dfrac{5x}{3}$

45. $x + \dfrac{2}{x} = 3$

46. $x - 2 = \dfrac{4x-8}{x}$

47. $\dfrac{x}{2} + \dfrac{3}{x} = \dfrac{2x+9}{x}$

48. $2x - 2 = \dfrac{6x}{x-1} - 5$

49. $x(x+1) - \left(x + \dfrac{x}{2}\right) = 0$

50. $3x + 1 - \dfrac{3}{x} = \dfrac{1+3x}{4}$

51. $2 + \dfrac{x+4}{3} = \dfrac{4x+4}{3} + \dfrac{2-x}{x-3}$

52. $x + \dfrac{1}{x} = \dfrac{6}{3x}$

53. $x - 2 = \dfrac{2x-3}{x}$

54. $\dfrac{x}{3} + \dfrac{2}{x} = \dfrac{3x+10}{3x}$

55. $x + 3 = \dfrac{2x+1}{x-1}$

56. $\dfrac{3}{x + \dfrac{1}{2 + \dfrac{x+1}{x-2}}} = \dfrac{1}{x}$

57. $\dfrac{\dfrac{x-3}{2} - \dfrac{x-3}{4}}{x - \dfrac{1}{1 - \dfrac{x-1}{x+1}}} = -\dfrac{1}{x}$

Soluciones:

29. x=-2, x=-1;   30. x=1, x=5/3;   31. x=5/3, x=0;   32. x=4/3, x=7;

33. x=5/8, x=0;   34. x=-3/4, x=-1/2;   35. x=-5, x=1;   36. x=-2, x=2;

37. x=1, x=4;   38. x=-2/3, x=4;   39. x=-1, x=8/3;   40. x=-3, x=-1/2;

41. x=-3, x=0;   42. x=3;   43. x=-1/3, x=2/3;   44. x=2, x=3;

45. x=1, x=2;   46. x=4, x=2;   47. x=-2, x=6;   48. x=-1/2, x=3;

49. x=0, x=1/2;   50. x=1, x=-4/3;   51. x=2, x=4;   52. x=1, x=-1;

53. x=3, x=1;   54. x=-1, x=4;   55. x=-2, x=2;   56. x=1/2, x=2/3;

57. x=-1; x=2