

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: $x=5; x=1/3$

$$29. 1 - \frac{x^2}{3} - \frac{3x+2}{3} = 1$$

$$30. \frac{(x-3)^2}{2} - x + x^2 = x - (x-2)$$

$$31. \frac{1}{x-1} + 3x + 3x^2 - 2 = \frac{3}{x-1} + 3x^2$$

$$32. (x-3)^2 - \frac{x-1}{3} = 2x$$

$$33. \frac{x-3}{3} - \frac{1}{x-1} = 3x$$

$$34. x - \frac{2}{x} + \frac{1}{2x} = 5x + 5$$

$$35. \frac{x-3}{x} + 3x - \frac{5}{x} = 2x - \frac{3}{x} - 3$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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. $x=-1; x=2$