

## ECUACIONES DE 1° GRADO

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|--------------------------------|--------------|---|--------------|
| 1. $2x-34=-20$                 | Sol: $x=7$   | 2. $9x+8=7x+6$                            | Sol: $x=-1$  |
| 3. $4x+3=3x+5$                 | Sol: $x=2$   | 4. $7x+9=3+9x$                            | Sol: $x=3$   |
| 5. $x-8=2x-11$                 | Sol: $x=3$   | 6. $x+1=2x-7$                             | Sol: $x=8$   |
| 7. $6x+6=4+8x$                 | Sol: $x=1$   | 8. $9+9x=17+5x$                           | Sol: $x=2$   |
| 9. $2x+3=3x$                   | Sol: $x=3$   | 10. $25-2x=3x+20$                         | Sol: $x=1$   |
| 11. $4x+1=3x+3$                | Sol: $x=2$   | 12. $5x-3=10x-6$                          | Sol: $x=3/5$ |
| 13. $1+8x=-16x+31$             | Sol: $x=5/4$ | 14. $5x-11=15x-19$                        | Sol: $x=4/5$ |
| 15. $12x-48=-15x-30$           | Sol: $x=2/3$ | 16. $2x+17=3x+7$                          | Sol: $x=10$  |
| 17. $10-5x=x-2$                | Sol: $x=2$   | 18. $70-3x=4x$                            | Sol: $x=10$  |
| 19. $48-3x=5x$                 | Sol: $x=6$   | 20. $-4x+30=-3x-10$                       | Sol: $x=40$  |
| 21. $10x-15=4x+27$             | Sol: $x=7$   | 22. $x-3(x-2)=6x-2$                       | Sol: $x=1$   |
| 23. $3x+1=6x-8$                | Sol: $x=3$   | 24. $3x-7=2(x+1)$                         | Sol: $x=9$   |
| 25. $47-3x=5+11x$              | Sol: $x=3$   | 26. $2(2+4x)=3+12x$                       | Sol: $x=1/4$ |
| 27. $30-9x=-7x+21$             | Sol: $x=9/2$ | 28. $5x=7(5x-3)+3$                        | Sol: $x=3/5$ |
| 29. $3x-10=2x+1$               | Sol: $x=11$  | 30. $2(x-5)=3x-17$                        | Sol: $x=7$   |
| 31. $25-2x=3x-35$              | Sol: $x=12$  | 32. $2+5(x-13)=x-3$                       | Sol: $x=15$  |
| 33. $75-5x=3x+3$               | Sol: $x=9$   | 34. $2x-1=3(2x-15)$                       | Sol: $x=11$  |
| 35. $5+8x=2x+20$               | Sol: $x=5/2$ | 36. $2(x-2)=-(-4-x)$                      | Sol: $x=0$   |
| 37. $2y-3=y+5$                 | Sol: $y=8$   | 38. $2(3x-49)=-x+14$                      | Sol: $x=16$  |
| 39. $2-6x=3x-1$                | Sol: $x=1/3$ | 40. $20=2x-(10-4x)$                       | Sol: $x=5$   |
| 41. $60x-1=3(1+12x)$           | Sol: $x=1/6$ | 42. $5(x-1)+10(x+2)=45$                   | Sol: $x=2$   |
| 43. $2x+3(2x-1)=x+67$          | Sol: $x=10$  | 44. $12x+3(2x-4)=60$                      | Sol: $x=4$   |
| 45. $3-2x(5-2x)=4x^2+x-30$     | Sol: $x=3$   | 46. $3x-(x+1)=x-2$                        | Sol: $x=-1$  |
| 47. $3[2x-(3x+1)]=x+1$         | Sol: $x=-1$  | 48. $x-3(x+5)=3x+10$                      | Sol: $x=-5$  |
| 49. $(x-15)=3(x-19)$           | Sol: $x=21$  | 50. $3(2-x)=18x-1$                        | Sol: $x=1/3$ |
| 51. $3(x+4)=4x+1$              | Sol: $x=11$  | 52. $10+5(x-3)=3(x+1)$                    | Sol: $x=4$   |
| 53. $2(3-4x)=2x-9$             | Sol: $x=3/2$ | 54. $10-9x=4(x-4)$                        | Sol: $x=2$   |
| 55. $2(3x+2)=4[2x-5(x-2)]$     | Sol: $x=2$   | 56. $15x=2(1+9x)-3$                       | Sol: $x=1/3$ |
| 57. $3(12-x)-4x=2(11-x)+9x$    | Sol: $x=1$   | 58. $x+3=3(2x-4)$                         | Sol: $x=3$   |
| 59. $\frac{3x}{2} + 2 = x + 4$ |              | 60. $x - 8 = \frac{x}{2} - \frac{x-6}{3}$ |              |

$$61. x - \frac{3x}{4} = \frac{x}{7} + 3$$

$$63. \frac{9x}{4} - 6 = \frac{2x}{3} + \frac{1}{3}$$

$$65. \frac{3x}{5} - 7 = \frac{2x}{6} + 1$$

$$67. \frac{x}{3} + x = 10 + \frac{2x}{9}$$

$$69. \frac{x}{5} + \frac{x}{2} = x - 3$$

$$62. 2 \left( \frac{x+5}{3} \right) = x + 3$$

$$64. \frac{5x}{6} - \frac{3x}{4} = x - 11$$

$$66. x - 10 = \frac{5}{9} (x - 6)$$

$$68. \frac{3x}{2} + 1 = 12 - \frac{x}{3}$$

$$70. 4x - 7 = \frac{5x - 6}{4}$$

Sol: 59.  $x=4$ ; 60.  $x=12$ ; 61.  $x=28$ ; 62.  $x=1$ ; 63.  $x=4$ ; 64.  $x=12$ ; 65.  $x=30$ ; 66.  $x=15$ ; 67.  $x=9$ ; 68.  $x=6$ ;  
69.  $x=10$ ; 70.  $x=2$