



RELACIÓN DE EJERCICIOS ECUACIONES - 2º ESO

TEMA 7: ECUACIONES

01. $2x-34=-20$	Sol: $x=7$	02. $9x+8=7x+6$	Sol: $x=-1$
03. $4x+3=3x+5$	Sol: $x=2$	04. $7x+9=3+9x$	Sol: $x=3$
05. $x-8=2x-11$	Sol: $x=3$	06. $x+1=2x-7$	Sol: $x=8$
07. $6x+6=4+8x$	Sol: $x=1$	08. $9+9x=17+5x$	Sol: $x=2$
09. $2x+3=3x$	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. $2y-1=3(2y-15)$	Sol: $y=11$
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. $3(x-5)-2(x+4)=18$	Sol: $x=41$	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. $3[x+(14-x)]=2[x-(2x-21)]$	Sol: $x=0$	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. $2[3(x+5)-9]=-3(2x-4)$	Sol: $x=0$	54. $7(x-1)-2(x+8)=3(x-3)$	Sol: $x=7$
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. $2(1+x)-3(x-1)-6=x-11$	Sol: $x=5$
59. $5-[3-2(4-x)]=2(4x+4)$	Sol: $x=1/5$	60. $-5(2-x)+3(2x+4)=(4x-2)\cdot 5$	Sol: $x=4/3$
61. $3x+5(12-x)=-3x+4-2(7-3x)$	Sol: $x=14$	62. $-2+5[-6x+3(5-x)]=20-(x+1)$	Sol: $x=27/22$
63. $-3x=2x+4x-x$	Sol: $x=0$	64. $5(x-3)-4(x-1)=2x-3(x+2)$	Sol: $x=5/2$
65. $13x-5(x+2)=4(2x-1)+7$	No Sol	66. $11-5(3x+2)+7x=1-8x$	Identidad
67. $3x+5(2x-1)=8-3(4-5x)$	Sol: $x=-1/2$	68. $x-7(2x+1)=2(6-5x)-13$	Sol: $x=-2$

RELACIÓN DE EJERCICIOS

ECUACIONES - 2º ESO

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| <p>1. $3x + \frac{1}{2}x + 6 = 2x$ $x = -4$</p> | <p>21. $\frac{3}{2} + \frac{3x}{2} - \frac{5x}{6} = 15$ $x = \frac{81}{4}$</p> |
| <p>2. $\frac{3}{2}x + 8 = \frac{3}{5}x - 1$ $x = -10$</p> | <p>22. $\frac{3x-11}{20} - \frac{5x-1}{14} = \frac{x-7}{10} - \frac{5x-6}{21}$ $x = \frac{-27}{29}$</p> |
| <p>3. $\frac{4}{3}(x+1) = 2x - 1$ $x = \frac{7}{2}$</p> | <p>23. $\frac{3x-17}{8} - \frac{1-4x}{3} = \frac{1-x}{4} - \frac{9+x}{6}$ $x = \frac{29}{51}$</p> |
| <p>4. $\frac{x}{2} + \frac{2x}{3} - \frac{5x}{6} = 5x - 14$ $x = 3$</p> | <p>24. $2 + \frac{3x-1}{15} + \frac{x-4}{5} = \frac{x+4}{3}$ $x = 1$</p> |
| <p>5. $\frac{x-2}{4} - \frac{2x+6}{3} = 0$ $x = -6$</p> | <p>25. $\frac{5x+7}{2} - \frac{3x+9}{4} = \frac{2x+5}{3} + 5$ $x = 5$</p> |
| <p>6. $\frac{x+1}{5} + \frac{x-2}{6} = 1$ $x = \frac{34}{11}$</p> | <p>26. $\frac{x-5}{2} - \frac{8-3x}{2} = 2 - \frac{9x}{2}$ $x = \frac{17}{13}$</p> |
| <p>7. $\frac{2x+4}{4} - 2(x-3) = 5 - \frac{7x}{2}$ $x = -1$</p> | <p>27. $5 - \frac{2x-8}{2} = \frac{3x}{2} - \frac{3-x}{5}$ $x = \frac{32}{9}$</p> |
| <p>8. $\frac{x-5}{3} - \frac{2x-4}{12} = \frac{5-x}{4} - \frac{x}{3}$ $x = \frac{31}{9}$</p> | <p>28. $\frac{x-2}{6} - \frac{3-2x}{5} = 6 - \frac{5x}{5}$ $x = \frac{208}{47}$</p> |
| <p>9. $\frac{1}{x} + 1 = \frac{3}{x} - 3$ $x = \frac{1}{2}$</p> | <p>29. $\frac{x-5}{9} - \frac{4-2x}{2} = 8 - \frac{8x}{2}$ $x = \frac{95}{46}$</p> |
| <p>10. $\frac{2x-1}{3} - \frac{5x-4}{7} = \frac{x+5}{2} - 5$ $x = 5$</p> | <p>30. $\frac{-6(5+x)}{2} = \frac{1}{3} \left(4 - \frac{4x}{2} \right) + \frac{3x}{2}$ $x = -\frac{38}{11}$</p> |
| <p>11. $\frac{5x}{6} - \frac{3}{6} = \frac{2}{4} + \frac{x}{4}$ $x = \frac{12}{7}$</p> | <p>31. $\frac{4(2+x)}{3} = \frac{1}{5} \left(8 - \frac{6x}{3} \right) + \frac{5x}{3}$ $x = \frac{-16}{15}$</p> |
| <p>12. $\frac{x-4}{6} + \frac{2x-4}{8} = \frac{5x}{10} - \frac{5x-6}{12}$ $x = 5$</p> | <p>32. $\frac{5(7+x)}{2} = \frac{1}{3} \left(5 - \frac{5x}{2} \right) + \frac{3x}{2}$ $x = -25$</p> |
| <p>13. $\frac{x+2}{x} - \frac{1}{3} = \frac{4}{x}$ $x = 3$</p> | <p>33. $\frac{-1}{2} \left(1 - \frac{3x}{2} \right) + \frac{6x}{2} = \frac{-3}{2} \left(\frac{6+x}{2} \right)$ $x = -\frac{8}{9}$</p> |
| <p>14. $\frac{x+2}{3} - \frac{5x-3}{4} - 2x = 5$ $x = -\frac{43}{35}$</p> | <p>34. $\frac{-1}{2} \left(4 - \frac{6x}{3} \right) + \frac{5x}{3} = \frac{-5}{3} \left(\frac{2+x}{2} \right)$ $x = \frac{2}{21}$</p> |
| <p>15. $\frac{5+2x}{x} - \frac{1}{x^2} = 2$ $x = \frac{1}{5}$</p> | <p>35. $\frac{-1}{3} \left(8 - \frac{4x}{2} \right) + \frac{2x}{2} = \frac{-6}{2} \left(\frac{7+x}{3} \right)$ $x = -\frac{13}{8}$</p> |
| <p>16. $x(x-1) - (x-3) = x^2 - 1 - (x-2)$ $x = 2$</p> | <p>36. $18 + \frac{3x+4}{5} = \frac{5x+4}{2} - \frac{2x-5}{2}$ $x = \frac{143}{9}$</p> |
| <p>17. $\frac{x-1}{4} - \frac{x-5}{36} = \frac{x-5}{9}$ $x = -4$</p> | <p>37. $\frac{x}{3} - \frac{13-2x}{2} = \frac{1}{6}$ $x = 5$</p> |
| <p>18. $5x - 3(2x - 4) = 9$ $x = 3$</p> | <p>38. $\frac{15x-35}{10} + \frac{4-x}{3} = \frac{20}{4} + \frac{3x-3}{18}$ $x = 7$</p> |
| <p>19. $\frac{3}{2} + 3x = \frac{5x}{9} - \frac{2x+1}{6}$ $x = \frac{-3}{5}$</p> | <p>39. $\frac{4x}{2} + x = \frac{6x}{3} + 7$ $x = 7$</p> |
| <p>20. $\frac{8x}{2} - 3 = 3x + 1$ $x = 4$</p> | <p>40. $\frac{3x+1}{3} - \frac{5x-4}{7} = \frac{25}{21}$ $x = 1$</p> |