

**ECUACIONES DE PRIMER GRADO: -. HOJA 3ª**

1.  $\frac{1}{4}(3x+5) + \frac{1}{6}(x+4) = 1 \Rightarrow x = -1$
2.  $\frac{x-2}{2} + \frac{3x+2}{2} = 6 \Rightarrow x = 3$
3.  $\frac{1}{5}x - \frac{3}{4}x + \frac{1}{2} = -x \Rightarrow x = -\frac{10}{9}$
4.  $\frac{3}{4} - \frac{x}{2} = \frac{1}{5} + \frac{3x}{10} \Rightarrow x = \frac{11}{16}$
5.  $\frac{1}{2}x - \frac{2}{3}x + \frac{3}{4}x = 0 \Rightarrow x = 0$
6.  $\frac{x}{4} - 0,5x = \frac{1}{2} \Rightarrow x = -2$
7.  $3x + \frac{2}{3} = -1,4x \Rightarrow x = -\frac{5}{33}$
8.  $\frac{x}{2} - 0,3x = 2,5 + 3x \Rightarrow x = -\frac{25}{28}$
9.  $3 + \left(4 - \frac{x}{2}\right) = \frac{1}{5} \Rightarrow x = \frac{68}{5}$
10.  $5x - \left(\frac{1}{3} - x\right) = \frac{3}{4} \Rightarrow x = \frac{4}{63}$
11.  $\frac{2}{3}(x-2) + x = \frac{5x}{4} \Rightarrow x = \frac{16}{5}$
12.  $2x - \frac{1}{2}\left(x + \frac{3}{4}\right) = \frac{4}{5}\left(1 - \frac{x}{4}\right) \Rightarrow x = \frac{47}{68}$
13.  $\frac{1}{3}x - \frac{3}{2}\left(5 - \frac{3}{5}x\right) = 1 - \frac{1}{6}\left(\frac{2}{5} + 3x\right) \Rightarrow x = \frac{253}{52}$
14.  $2x - \frac{3}{4}(x-0,8) = 1,6 + 5\left(\frac{1}{3} - 0,5x\right) \Rightarrow x = \frac{32}{45}$
15.  $8 + \{3 + 2x - [x - 2(5-x) + 1]\} = 0 \Rightarrow x = 20$
16.  $2\{4 - 3[x + 2(5-2x)] + 1\} = 3(x-10) \Rightarrow x = \frac{4}{3}$
17.  $\frac{3x}{5} - 11 = \frac{x}{10} - 20 \Rightarrow x = -18$
18.  $x - \frac{2+x}{6} = \frac{1}{2} \Rightarrow x = 1$
19.  $\frac{x-32}{40} = x + 7 \Rightarrow x = -8$
20.  $\frac{x-7}{12} = \frac{x-10}{9} \Rightarrow x = 19$
21.  $x + \frac{x}{2} + \frac{x}{3} + \frac{x}{4} = \frac{x}{12} - 1 \Rightarrow x = -\frac{1}{2}$
22.  $2x - \left(\frac{2}{3}x + \frac{4}{5}x + \frac{3}{10}x\right) = \frac{7}{15} \Rightarrow x = 2$
23.  $x - \frac{x-1}{2} = 1 + \frac{x+6}{3} \Rightarrow x = 15$
24.  $\frac{x-8}{15} = \frac{x-6}{20} - \frac{7}{30} \Rightarrow x = 0$
25.  $\frac{5x-9}{8} - x = \frac{4x-5}{10} - \frac{9}{2} \Rightarrow x = 5$
26.  $\frac{x}{6} - \frac{x-3}{4} = 1 - \frac{2x-5}{3} \Rightarrow x = \frac{23}{7}$
27.  $x - \frac{1}{2}(3-x) = \frac{5x-4}{6} - \frac{1-x}{2} \Rightarrow x = 2$
28.  $\frac{x}{3} - \frac{2}{3}\left(3x - \frac{3}{2}\right) = \frac{10}{3} - \frac{x-5}{3} \Rightarrow x = -3$
29.  $1 - \frac{1}{3}(2+3x) = 3 - \frac{6}{7}\left(x - \frac{1}{3}\right) \Rightarrow x = -\frac{62}{3}$
30.  $\frac{3}{2}\left(x - \frac{1}{3}\right) - \frac{2}{3}\left(3x - \frac{1}{2}\right) = \frac{1}{3}(x+2) \Rightarrow x = -1$
31.  $\frac{1}{7}\left(x - \frac{1}{2}\right) - \frac{1}{5}\left(1 - \frac{x}{2}\right) = \frac{x}{70} \Rightarrow x = \frac{19}{16}$
32.  $\frac{x-1}{5} + \frac{x+2}{2} = -\frac{3x+12}{10} \Rightarrow x = -2$
33.  $\frac{3(x-5)}{20} = \frac{2x-5}{30} \Rightarrow x = 7$
34.  $\frac{5(8-x)}{48} = \frac{11-32x}{72} \Rightarrow x = -2$
35.  $\frac{3(x-4)}{10} + \frac{2(x-2)}{15} = \frac{7}{10} \Rightarrow x = 5$
36.  $x - \frac{4}{5} + \frac{x-2}{6} = \frac{34x-34}{30} + 1 \Rightarrow x = 30$
37.  $\frac{3(x-8)}{16} - \frac{5(x-4)}{12} - 10 = x \Rightarrow x = -8$
38.  $\frac{1}{4}\left(\frac{1}{2}x - 1\right) = \frac{1}{2}\left(\frac{3}{4}x - 1\right) - \frac{1}{4} \Rightarrow x = 2$
39.  $3x - 2\left[1 - \frac{3(x-4)}{8} + \frac{x-3}{4}\right] = 3 \Rightarrow x = 2$

