

EQUAZIONI DI 1° GRADO NUMERICHE FRATTE

- 1 $\frac{x+5}{x^2+3x+2} = \frac{x+6}{x^2+5x+6}$ [-9]
- 2 $\frac{4x-3}{2x+1} - \frac{23+6x}{4x^2-4x-3} = \frac{4x-1}{2x-3}$ [imp.]
- 3 $\frac{1}{8-2x^2} + \frac{1}{8+2x^2-4x} + \frac{1}{x^3+8} = 0$ [3]
- 4 $\frac{1}{4x-12} + \frac{1}{x-3} = \frac{1}{x-4} + \frac{1}{4x-16}$ [imp.]
- 5 $\left(\frac{2x}{2} + \frac{3}{2}\right) : (4x^2-4x+1) - \frac{1}{2x-1} = \frac{1}{4x^2-1}$ [-7/6]
- 6 $\frac{x+5}{x+3} - \frac{1}{2x+6} = \frac{3}{x^2-9} + \frac{1}{6-2x} + 1$ [imp.]
- 7 $\left[1 - \left(\frac{3x}{3x+1}\right)^2\right] : \left(\frac{3x}{3x+1} + 1\right) - \frac{3x}{3x+1} = 0$ [1/3]
- 8 $\frac{1}{x^2-9x} - \frac{2}{x^2-81} = \frac{2}{x^2} - \frac{3}{x^2-9x}$ [imp.]
- 9 $\left(1 + \frac{1}{x}\right) : \left(5 + \frac{1}{x}\right) - \frac{1}{5} = \frac{1}{5(25x^2-1)}$ [1/4]
- 10 $\left(\frac{1}{x} + \frac{1}{2x+1}\right) \left(\frac{5x+2}{3x+1} - 1\right) = \frac{2}{2-x} - \frac{4}{x^2-2x}$ [-2/3]
- 11 $\frac{x}{x+1} + 1 - 3x = (3x+3) \left(\frac{1}{x^2+2x+1} - 1\right)$ [-1/5]
- 12 $\frac{4}{3} \left(\frac{1}{x+1} - \frac{1}{x^2+3x+2}\right) = \frac{2}{x} : \left(\frac{2}{x} + 1\right)$ [imp.]
- 13 $\frac{x}{2x-1} + \frac{2+3x}{x+1} = \frac{49x^2-4}{2x^2+x-1} : \frac{7x+2}{x}$ [imp.]
- 14 $\left(\frac{1}{2} - \frac{1}{x+2}\right) : \left(\frac{1}{2} + \frac{1}{x-2}\right) + 1 = \frac{2}{x+2}$ [1]
- 15 $\frac{4x^2-4}{x^2-5x+4} = \left(\frac{x}{x-1} + \frac{3x+2}{x-4}\right) : \frac{x}{x-1}$ [-2/9]
- 16 $\frac{1}{x+2} - \frac{1}{x} = \frac{x-6}{x^2+x-2} \left(\frac{1}{x} + \frac{1}{x-2}\right)$ [4]
- 17 $\frac{2}{3}(x-1) = \left(\frac{2x}{x+1} + \frac{1}{x-1} + \frac{1}{1-x^2}\right) : \left(\frac{1}{x+1} - \frac{x}{1-x^2}\right)$ [-2]
- 18 $\left(\frac{1+x}{1-x} - \frac{1-x}{1+x}\right) \left(\frac{2x^2}{x-3} - 2x - 6\right) = \left(3+x + \frac{x^2}{3-x}\right) : \left(\frac{3}{8x} + \frac{x}{8} - \frac{x}{2}\right)$ [imp.]
- 19 $\frac{5+2x}{x^3-27} + \frac{4}{3-x} = \frac{9-4x}{x^2+3x+9}$ [-4/31]
- 20 $\frac{5}{x^2+4x+4} + \frac{7}{x^3+2x^2} - \frac{5}{x^2} = \frac{2}{x^3+4x^2+4x} - \frac{6}{x^4+4x^3+4x^2}$ [imp.]