

Risolvi le seguenti equazioni numeriche fratte (nelle soluzioni sono omesse le condizioni di esistenza).

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|--|------------------------------------|--|------------------------------------|
| 310 $2 + \frac{3}{x} = 0$ | $\left[x = -\frac{3}{2} \right]$ | 328 $\frac{x^2}{x+4} - 2 = x$ | $\left[x = -\frac{4}{3} \right]$ |
| 311 $\frac{9}{x-2} = 3$ | $[x = 5]$ | 329 $\frac{1}{x-1} = \frac{2}{x-2}$ | $[x = 0]$ |
| 312 $\frac{x-1}{x+5} - 4 = 0$ | $[x = -7]$ | 330 $-\frac{3}{x+3} - \frac{2}{4-x} = 0$ | $\left[x = \frac{6}{5} \right]$ |
| 313 $\frac{6x+9}{x-1} = 0$ | $\left[x = -\frac{3}{2} \right]$ | 331 $\frac{x^2}{x-3} - x - 1 = \frac{1}{2}$ | $[x = -3]$ |
| 314 $\frac{2x-8}{3x^2} = 0$ | $[x = 4]$ | 332 $\frac{x}{2x+2} + x + 1 = \frac{x^2}{x+1}$ | $\left[x = -\frac{2}{5} \right]$ |
| 315 $\frac{3x-9}{2x-6} = 0$ | [impossibile] | 333 $x + \frac{4}{4-x} = \frac{x}{4-x} + x + 4$ | [impossibile] |
| 316 $\frac{3(x-1)}{2x-2} = 1$ | [impossibile] | 334 $\frac{x+1}{x-1} - 2 = \frac{2x}{x-1}$ | [impossibile] |
| 317 $\frac{1}{x} + \frac{1}{2} = 2$ | $\left[x = \frac{2}{3} \right]$ | 335 $\frac{2x-3}{2x+4} = \frac{x}{x+2} - \frac{1}{x}$ | $[x = 4]$ |
| 318 $\frac{1}{4x} + 1 - \frac{1}{6x} = 0$ | $\left[x = -\frac{1}{12} \right]$ | 336 $3 - \frac{1}{2x} = \frac{6+10x}{2x+4} - 2$ | $\left[x = \frac{2}{13} \right]$ |
| 319 $\frac{2(x-1)}{x+2} = 1$ | $[x = 4]$ | 337 $\frac{3}{x} + \frac{1}{2} = \frac{2x-1}{x}$ | $\left[x = \frac{8}{3} \right]$ |
| 320 $\frac{2(x-4)}{x} = 0$ | $[x = 4]$ | 338 $\frac{4}{x+1} = \frac{2}{x}$ | $[x = 1]$ |
| 321 $\frac{3x-1}{3x} - \frac{x+2}{4x} = 0$ | $\left[x = \frac{10}{9} \right]$ | 339 $\frac{-1}{x-3} = \frac{2}{x+1}$ | $\left[x = \frac{5}{3} \right]$ |
| 322 $\frac{6}{x-5} + \frac{x}{5-x} = 1$ | $\left[x = \frac{11}{2} \right]$ | 340 $\frac{x+1}{3x} = \frac{x}{3x+1}$ | $\left[x = -\frac{1}{4} \right]$ |
| 323 $\frac{1}{4-x} - \frac{2x}{x-4} = 0$ | $\left[x = -\frac{1}{2} \right]$ | 341 $\frac{1+3x}{4x+4} - \frac{5-x}{x+1} = 2$ | $[x = -27]$ |
| 324 $\frac{2}{x-9} + 1 = 0$ | $[x = 7]$ | 342 $\frac{5}{2-2x} - \frac{x}{x^2-2x+1} = 0$ | $\left[x = \frac{5}{7} \right]$ |
| 325 $\frac{1}{2} \left(4 - \frac{1}{x} \right) - 6 = \frac{3}{x}$ | $\left[x = -\frac{7}{8} \right]$ | 343 $\frac{x-1}{x^2+3x} + \frac{2}{x} + \frac{9}{2x+6} = 0$ | $\left[x = -\frac{2}{3} \right]$ |
| 326 $2 \left[\frac{1}{3}(x-2) + \frac{5}{x} \right] = \frac{1+2x}{3}$ | $[x = 6]$ | 344 $\frac{2-x}{3x+6} + \frac{1-3x}{2+x} = 2$ | $\left[x = -\frac{7}{16} \right]$ |
| 327 $\left[\frac{(x-1)(x+1)}{3x} - \frac{1-2x}{x} \right] \cdot (-2) + \frac{2x}{3} = 1$ | $\left[x = \frac{8}{15} \right]$ | 345 $\frac{2x}{x-3} - \frac{5}{x} = \frac{6x}{3x-9} + \frac{2}{3x}$ | [impossibile] |

$$346 \quad \frac{3x}{x+2} + \frac{2x}{x-7} = \frac{5x+6}{x+2} \quad \left[x = -\frac{7}{2} \right]$$

$$347 \quad \frac{1}{1+3x} - \frac{2x-1}{x+4} = \frac{2-3x}{1+3x} - \frac{x-4}{x+4} \quad [x = 7]$$

$$348 \quad \frac{1}{x} + \frac{3x}{3x+4} - \frac{1}{2} = \frac{x+4}{2x} - \frac{18}{x(3x+4)} \quad [x = 2]$$

$$349 \quad \frac{6x+3}{(x-2)^2} + \frac{20x-32}{4x} = 6 + \frac{1-x^2}{x(x-2)} \quad [x = 1]$$

$$350 \quad \frac{2}{1-x} = \frac{1}{x-x^2} + \frac{1}{x} \quad \left[x = \frac{2}{3} \right]$$

$$351 \quad \frac{4}{x^2-4} + \frac{1}{x^2-2x} = \frac{3}{x^2+2x} \quad [x = -4]$$

$$352 \quad \frac{x-1}{2x-6} + \frac{6}{x^2-9} - \frac{x}{2x+6} = 0 \quad \left[x = -\frac{9}{5} \right]$$

$$353 \quad \frac{1}{2x-4} - \frac{2}{x+2} = \frac{x+5}{3x^2-12} \quad \left[x = \frac{20}{11} \right]$$

$$354 \quad \frac{2}{x^2-1} + \frac{7}{x-1} = \frac{1}{x+1} \quad \left[x = -\frac{5}{3} \right]$$

$$355 \quad \frac{6x+1}{x^2-4} - \frac{6}{x} = \frac{3}{x^3-4x} \quad [x = -21]$$

$$356 \quad \frac{4}{3x} + \frac{1}{3x+12} - \frac{x-1}{2x^2+8x} = 0 \quad [x = -5]$$

$$357 \quad \frac{x-1}{x^2-25} + \frac{4}{5+x} = \frac{2}{5-x} \quad \left[x = \frac{11}{7} \right]$$

$$358 \quad \frac{2x}{x^2+6x+9} + \frac{1}{x+3} - \frac{3x-1}{x^2+3x} = 0 \quad \left[x = -\frac{3}{5} \right]$$

$$359 \quad \frac{1}{2} \left[\frac{2x}{x^2-4} - \left(\frac{x}{x+2} - 1 \right) \right] = \frac{6}{2-x} \quad \left[x = -\frac{5}{4} \right]$$

$$360 \quad \frac{x-1}{x+3} - \frac{2}{x^2+4x+3} = \frac{x+3}{x+1} \quad [x = -2]$$

$$361 \quad \frac{2+2x^2}{x^3+1} + \frac{1-x^2}{x^2-x+1} + \frac{x}{x+1} = 0 \quad \left[x = -\frac{3}{2} \right]$$

$$362 \quad \frac{x-1}{x^2+4x+4} + \frac{1}{2+x} = \frac{5}{4x+8} \quad [x = 2]$$

$$363 \quad \frac{7x-10}{x^2+x-6} + \frac{6}{x-2} = \frac{5}{x+3} \quad \left[x = -\frac{9}{4} \right]$$

$$364 \quad \frac{2}{x^2-x} - \frac{4}{x^2-1} = \frac{1}{x^2+x} \quad [\text{impossibile}]$$

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$$365 \quad \left(\frac{6x+2}{x^2-4x+4} + \frac{2}{2x-x^2} \right) \cdot \left(1 - \frac{2}{x} \right) = \frac{6x-1}{x^2-2x}$$

$$366 \quad \frac{x+5}{2x-8} + \frac{x-2}{x} = \frac{3x+1}{2x} + \frac{x+1}{x(x-4)} \quad [x = -9]$$

$$367 \quad \frac{x}{x+4} - \frac{3x+4}{2(x-3)} = -\frac{7+4x}{8+2x} + \frac{3}{2} \quad \left[x = -\frac{1}{30} \right]$$

$$368 \quad \left(\frac{1}{3}x + 1 \right) : (x+1) = \frac{2}{3} + \frac{1}{x} : \left(1 + \frac{1}{x} \right) \quad [x = -2]$$

$$369 \quad \frac{2}{3x+7} + \frac{5x+2}{x-1} = \frac{5+3x}{x} + \frac{6x+2}{3(x-1)} \quad \left[x = -\frac{21}{5} \right]$$

$$370 \quad 3 - 2x - \frac{1}{5x-1} = 2 - \frac{x(1+6x)}{3x+2} \quad \left[x = \frac{4}{7} \right]$$

$$371 \quad \frac{7x+2}{2x-3} + \frac{5x+4}{x} = \frac{34x^2+43x-2}{4x^2-9} + \frac{10-x}{2x^2-3x} \quad \left[x = -\frac{11}{9} \right]$$

$$372 \quad \frac{3(4x+1)}{3x+2} - \frac{6x+2}{3x-1} = \frac{6x+4}{3x-1} - \frac{15}{9x+6} \quad [\text{impossibile}]$$