

1	$\frac{3}{x-2} = 0$	<i>impossibile</i>
2	$4 - \frac{5}{x} = 0$	$x = \frac{5}{4}$
3	$\frac{6}{x} - 2 = 4$	$x = 1$
4	$\frac{7x+14}{x-2} = 0$	$x = -2$
5	$\frac{1}{x} + \frac{1}{2} = 4$	$x = \frac{2}{7}$
6	$\frac{3}{x-10} + 1 = 0$	$x = 7$
7	$\frac{3x-16}{x} = \frac{5}{3}$	$x = 12$
8	$\frac{4}{3x-1} = \frac{1}{2+x}$	$x = -9$
9	$\frac{1}{3}\left(9 - \frac{42}{x}\right) = \frac{4}{x} - 6$	$x = 2$
10	$\frac{2y-3y^2}{y+1} = \frac{5}{y+1} - 3y$	$y = 1$
11	$\left(\frac{4}{x} + \frac{x}{4}\right) : \left(\frac{4}{x} - \frac{x}{4}\right) = \frac{x^2-2x}{16-x^2}$	$x = -8$
12	$\frac{2}{3}\left(1 - \frac{2}{a}\right) + \frac{3}{2}\left(1 - \frac{3}{a}\right) = 1$	$a = 5$
13	$\frac{2}{x+1} = \frac{1}{x-3}$	$x = 7$
14	$\frac{2}{x+1} = \frac{3}{x-1}$	$x = -5$
15	$\frac{y-2}{y+1} = \frac{y-4}{y+3}$	$y = \frac{1}{2}$
16	$\frac{x+1}{x-2} + \frac{x-1}{x+2} = 2$	<i>impossibile</i>
17	$\frac{4(a-3)}{a+3} - 4 = \frac{3}{a-3}$	$a = \frac{7}{3}$
18	$\frac{1}{1-x} + \frac{1}{x-1} = 1$	<i>impossibile</i>
19	$\frac{1}{x-3} = -\frac{2}{x+5}$	$x = \frac{1}{3}$
20	$\frac{x-1}{x+1} - \frac{x+1}{x-1} + \frac{8}{x^2-1} = 0$	$x = 2$
21	$\frac{4}{x-4} = \frac{4}{x+4}$	<i>impossibile</i>

22	$\frac{1}{x^2 - 3x} + \frac{1}{x^2 + x} = \frac{4}{x^2 - 2x - 3}$	<i>impossibile</i>
23	$\frac{y + 2}{y - 4} = \frac{y + 1}{y - 3}$	$y = 1$
24	$\frac{z + 1}{z - 1} - \frac{2z - 2}{z + 1} = \frac{z + 1}{1 - z}$	$z = 0$
25	$\frac{1 + 3x}{x} + \frac{4}{x - 2x^2} = \frac{6x}{2x - 1}$	$x = -5$
26	$\frac{2y}{y - 2} - \frac{1 - y}{2y - y^2} - 2 = \frac{1}{y}$	$y = -\frac{3}{2}$
27	$\frac{x + 1}{x - 1} - \frac{3 + 6x}{x + 1} = \frac{3x - 5x^2 + 6}{(x + 1)(x - 1)}$	<i>impossibile</i>
28	$\frac{1}{2 - 3z} - \frac{6}{3z^2 - 2z} = \frac{5}{z}$	$z = \frac{1}{4}$
29	$\frac{1}{x^2 - 4} - \frac{1}{(x + 2)(x - 1)} = \frac{2}{(x - 1)(x - 2)}$	$x = -\frac{3}{2}$
30	$\frac{1 + y}{y + 3} + \frac{y + 1}{y - 3} = \frac{2(y^2 + 3)}{y^2 - 9} - \frac{1}{y + 3}$	<i>impossibile</i>
31	$\frac{x + \frac{1}{2}}{x} - \frac{x - \frac{1}{2}}{x} = 1$	$x = 1$
32	$\frac{x^2 + 3}{x + 4} = x - 2$	$x = \frac{11}{2}$
33	$\frac{x}{2(x + 1)} = \frac{x^2}{x + 1} - x - 1$	$x = -\frac{2}{5}$
34	$\frac{5x}{2x + 3} = 1 + \frac{3x}{2x - 3}$	$x = \frac{3}{8}$
35	$\frac{2x - 4}{2x + 2} = \frac{x}{x + 1} - \frac{1}{x}$	$x = 1$
36	$3 \left[\frac{1}{2}(x - 1) + \frac{4}{x} \right] = \frac{1 + 3x}{2}$	$x = 6$
37	$\frac{2}{1 - 2a} + \frac{1}{2a - 1} = \frac{1 - 5a}{1 - 4a^2}$	$a = 0$
38	$\frac{2}{z + 2} - \frac{6}{3 - z} = \frac{32}{z + 6 - z^2}$	$z = -\frac{19}{4}$
39	$\frac{1}{x^2 + 4x + 3} - \frac{1}{x^2 - 2x - 3} = \frac{1}{x^2 - 9}$	$x = -7$
40	$\frac{1}{x^2 - 1} - \frac{1}{x - x^2} = \frac{2}{x^2 + x}$	<i>impossibile</i>
41	$\frac{4}{z + 1} - \frac{3z}{z - 3} = \frac{9z}{9 - 3z}$	<i>impossibile</i>

42	$\frac{1}{2x-4} - \frac{2}{x+2} = \frac{x+5}{3x^2-12}$	$x = \frac{20}{11}$
43	$\frac{10}{(x-5)^2} + \frac{x}{x-1} = 1$	<i>impossibile</i>
44	$\frac{4+x}{x-3} - \frac{3+x}{x-2} = \frac{5}{x^2-x-6}$	<i>impossibile</i>
45	$\frac{x+5}{x+3} - \frac{3x}{x+2} = \frac{6-2x^2}{x^2+5x+6}$	$x = 2$
46	$\frac{2-x}{3x+6} + \frac{1-3x}{2+x} = 2$	$x = -\frac{7}{16}$
47	$\frac{1}{x^2-9} = \frac{3}{x+3} - \frac{2}{2x+6}$	$x = \frac{7}{2}$
48	$\frac{1}{3(x+4)} + \frac{4}{3x} = \frac{x-1}{8x+2x^2}$	$x = -5$
49	$\frac{2}{x^2-x} - \frac{1}{x^2+x} = \frac{4}{(x-1)(x+1)}$	<i>impossibile</i>
50	$\frac{2}{x^2-1} = \frac{3}{x^2-4} - \frac{1}{x^2+x-2}$	$x = -7$
51	$\frac{3x-12}{x^2-16} = 0$	<i>se $x = 4$: non accettabile</i>
52	$\left(\frac{3}{2x-2} - \frac{3}{2x+2}\right)\left(\frac{1}{2x} - \frac{1}{2}\right) + \frac{1}{2x+2} = \frac{1}{x}$	$x = -5$
53	$\frac{1}{2x-x^2} + \frac{1}{x^2-4} = \frac{2}{x^2+2x}$	$x = 1$
54	$\frac{1}{2z+4} - \frac{1}{4-2z} = \frac{z+1}{(z+2)(z-2)}$	<i>impossibile</i>
55	$\frac{5}{y^3-1} + \frac{y}{y^2+y+1} = \frac{1}{y-1}$	$y = 2$
56	$\frac{1}{x^2+4x+3} = \frac{3}{18-2x^2} + \frac{1}{x^2-2x-3}$	<i>impossibile</i>
57	$\frac{x-2}{x^3-x} + \frac{1}{x^2-1} = \frac{2}{x^2+x}$	<i>per $x \neq 0, x \neq \pm 1$ equazione indeterminata</i>
58	$\frac{4}{3x-4} - \frac{4}{3x+4} = \frac{6(2x+5)}{9x^2-16} - \frac{1}{3x-4}$	$x = \frac{2}{3}$
59	$\frac{2(x^2+2)}{x^2-4} - 1 = \frac{x+1}{x-2}$	<i>se $x = \pm 2$: non accettabile</i>

60	$\frac{3}{x+3} = \left(\frac{x-3}{x+3} - \frac{x+3}{x-3}\right) : \left(\frac{x-3}{x+3} + 1\right)$	$x = -1$
61	$\frac{1}{x^2+2x-3} - \frac{1}{x^2-3x+2} = -\frac{1}{(x-2)(x+3)}$	$x = 6$
62	$\frac{2x}{x^2+1} = \left(\frac{x+1}{x-1} - \frac{x-1}{x+1}\right) : \left(\frac{x-1}{x+1} + \frac{x+1}{x-1}\right)$	$\forall x \neq \pm 1$
63	$\frac{2+x}{x+2} + \frac{x+1}{x-2} = \frac{2(x^2+2)}{(x-2)(x+2)}$	<i>impossibile</i>
64	$\frac{2}{x^2-x-2} + \frac{1}{3x^2+2x-1} = \frac{7x-11}{3x^3-4x^2-5x+2}$	<i>impossibile</i>
65	$\frac{4x-x^2}{x^4-16} + \frac{1}{4x-8} = \frac{1}{4x+8}$	$x = -1$
66	$\frac{\frac{1}{x} + \frac{1}{3}}{\frac{1}{x} - \frac{1}{3}} : \frac{x^2+3x}{3x-9} - \frac{x}{3} + \frac{2x-3}{6} = 2$	$x = -\frac{6}{5}$
67	$\frac{\frac{1}{y-2} + \frac{1}{y+2}}{\frac{1}{y+2} - \frac{1}{y-2}} = 2$	$y = -4$
68	$\frac{x + \frac{1}{2}}{x - \frac{1}{2}} = 2 - \frac{x+4}{x-4}$	$x = \frac{8}{9}$
69	$\frac{1-2z}{z^2+3z} + \frac{4z-6}{2z^2-6z} + \frac{12}{9-z^2} = 0$	$z = -6$
70	$\frac{a+2}{a^2-2a} - \frac{8}{a^2-4} = \frac{2a}{a^2-4} - \frac{a-2}{a^2-2a}$	<i>impossibile</i>
71	$-\frac{4}{x} - \frac{4}{1-x} - \frac{5}{x+x^2} = \frac{5}{x^2-1}$	$x = \frac{3}{2}$
72	$\frac{2x}{x^2-3x} + \frac{12}{9-x^2} = \frac{2x}{x^2+3x}$	<i>per $x \neq -3$ equazione indeterminata</i>
73	$\frac{1}{5z+5} + \frac{1}{5z-5} + \frac{1}{5} = \frac{z^2+5}{5+5z^2-10z}$	$x = -\frac{1}{2}$
74	$\frac{3}{x^2-x} + \frac{3}{x^2+x} + \frac{3}{x} = \frac{x-3x^2}{x-x^3}$	$x = \frac{3}{7}$
75	$\frac{x-3}{x+1} = -5 \frac{2x-1}{x+1}$	$x = \frac{8}{11}$
76	$\frac{3}{x-1} = \frac{2}{3}$	$x = \frac{11}{2}$

77	$\frac{1}{2x-1} = \frac{1}{x} - \frac{1}{2x+2}$	$x = 2$
78	$\frac{x}{2x+6} = \frac{1}{2} + \frac{x+1}{x+3}$	$x = -\frac{5}{2}$
79	$\frac{2x-6}{x^2-2x-15} = \frac{1}{x+3} + \frac{2}{x-5}$	$x = -7$
80	$\frac{x^2}{2} - 9\frac{x-3}{4x-6} + \frac{2x^3}{3-2x} = \frac{6x^2-9x}{6-4x}$	<i>impossibile</i>
81	$\frac{x}{x-3} = \frac{x}{x+3} + \frac{2}{x^2-9} + 1 - \frac{x^2}{x^2-9}$	$x = -\frac{7}{6}$
82	$\frac{x}{x-5} = \frac{2}{x^2-25} + 1$	$x = -\frac{23}{5}$
83	$\frac{x}{x+1} = \frac{2x+1}{2x+2} + \frac{3}{x^2-1}$	$x = -5$
84	$\frac{6x+4}{4x^2+4x+1} - \frac{4x}{4x^2-1} = \frac{1}{2x+2} - \frac{2}{4x^2-1}$	$x = -\frac{3}{4}$
85	$\frac{x^2}{x^2-5x-14} + \frac{3x}{x+2} + \frac{2x}{x-7} = \frac{5x+6}{x+2} + 1$	$x = -\frac{56}{17}$
86	$\frac{x+7}{x+2} + x = \frac{x^2-1}{x+1} - \frac{1}{x+2} - \frac{3-2x^2}{x^2+x+2}$	<i>impossibile</i>
87	$\frac{x^2-1}{x^2-x} = \frac{x}{x-4} - \frac{3x^2}{x(x-1)(x-4)}$	<i>impossibile</i>
88	$\frac{1}{-x^2+2x-1} = -\frac{3}{x-1} - \frac{2}{3x-3}$	$x = \frac{14}{11}$
89	$\frac{4x-1}{4x^2-1} = -\frac{3x+5}{1-2x} + \frac{1-3x}{2x+1}$	$x = -\frac{5}{14}$
90	$\frac{x}{x+1} = \frac{1}{3x+3} + \frac{2}{3}$	$x = 3$
91	$\frac{2x}{x-3} - \frac{x^2}{x-2} + \frac{3x-x^2}{2-x} = \frac{x-x^2}{x^2-5x+6}$	$x = 0$
92	$\frac{2x+1}{x+1} + \frac{5}{1-x} = \frac{2}{x^2-1}$	$x = 4$
93	$5 + \frac{4-2x}{x+2} + \frac{5}{1-x} = \frac{3x+2}{x-1}$	$x = -14$
94	$\frac{5}{4x^2-4x+1} - \frac{1}{(2x+1)^2} - \frac{3}{(4x^2-1)^2} = \frac{20x^2+27}{16x^4-8x^2+1} - \frac{1}{4x^2-1}$	$x = \frac{9}{8}$