

## Disequazioni fratte di primo grado

1	$\frac{x}{x-2} > 5$	$2 < x < \frac{5}{2}$
2	$\frac{3x}{x-6} \geq 8$	$6 < x \leq \frac{48}{5}$
3	$\frac{x+4}{x-3} < 2$	$x < 3 \vee x > 10$
4	$\frac{x-2}{x+3} > 0$	$x < -3 \cup x > 2$
5	$\frac{x+3}{x-2} > 0$	$x < -3 \cup x > 2$
6	$\frac{x+3}{x-2} < 1$	$x < 2$
7	$-\frac{2x+3}{5x+1} \geq 0$	$-\frac{3}{2} \leq x < -\frac{1}{5}$
8	$\frac{2x-1}{x-3} > 0$	$x < \frac{1}{2} \cup x > 3$
9	$\frac{5-x}{2x+2} < 0$	$x < -1 \cup x > 5$
10	$\frac{2x-1}{x-3} > 2$	$x > 3$
11	$\frac{5x+12}{7x-1} < 1$	$x < \frac{1}{7} \vee x > \frac{13}{2}$
12	$\frac{2-3x}{x+2} < \frac{2}{3}$	$x < -2 \vee x > \frac{2}{11}$
13	$\frac{2x}{x+1} \leq 0$	$-1 < x \leq 0$
14	$\frac{x-2}{x-16} < 0$	$2 < x < 16$
15	$\frac{2x-1}{5-x} \leq 0$	$x \leq \frac{1}{2} \cup x > 5$
16	$\frac{3x+7}{4x-1} \geq 0$	$x \leq -\frac{7}{3} \cup x > \frac{1}{4}$
17	$\frac{3-x}{2-7x} \geq 0$	$x < \frac{2}{7} \cup x \geq 3$

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18	$\frac{x+5}{x-2} \leq 0$	$-5 \leq x < 2$
19	$\frac{x-2}{2x-1} > 2$	$0 < x < \frac{1}{2}$
20	$\frac{2+x}{x-1} < 0$	$-2 < x < 1$
21	$\frac{1-3x}{4x-3} < 0$	$\frac{1}{3} < x < \frac{3}{4}$
22	$\frac{2-x}{4+x} \geq 0$	$-4 < x \leq 2$
23	$\frac{22-x}{1-x} - 7 \geq 0$	$-\frac{5}{2} \leq x < 1$
24	$\frac{1-x}{3x} - 1 \geq 0$	$0 < x \leq \frac{1}{4}$
25	$\frac{2x+5}{3x-1} > 4$	$\frac{1}{3} < x < \frac{9}{10}$
26	$\frac{x-1}{x+1} - 1 < \frac{1-3x}{1+x}$	$-1 < x < 1$
27	$2 - \frac{x-12}{3x+1} \leq 0$	$-\frac{14}{5} \leq x < \frac{1}{3}$
28	$\frac{15}{7} \leq -\frac{1}{x+6}$	$-\frac{97}{15} \leq x < -6$
29	$\frac{2}{6x-7} - \frac{1}{4} \geq 1$	$\frac{7}{6} < x \leq \frac{43}{30}$
30	$8 \geq \frac{11}{x} - \frac{1}{4}$	$x < 0 \vee x \geq \frac{4}{3}$
31	$\frac{4}{7x-3} < \frac{3}{3-2x}$	$x < \frac{3}{7} \vee \frac{21}{29} < x < \frac{3}{2}$
32	$\frac{3(4+5x)}{x} \geq -\frac{5}{4}$	$x \leq -\frac{48}{65} \vee x > 0$
33	$-3 + \frac{1-x}{9} \geq \frac{x}{3}$	$x \leq -\frac{13}{2}$
34	$-3 > \frac{3}{x-6} + \frac{1}{5}$	$\frac{81}{16} < x < 6$

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35	$2 - \frac{5}{x-10} < 0$	$10 < x < \frac{25}{2}$
36	$\frac{2}{3x-3} < \frac{4}{3-x}$	$x < 1 \vee \frac{9}{7} < x < 3$
37	$\frac{x-2}{3x-5} > \frac{6}{19}$	$x < \frac{5}{3} \cup x > 8$
38	$\frac{13}{x+4} \leq \frac{15}{2x-3}$	$x < -4 \vee \frac{3}{2} < x \leq 9$
39	$\frac{6}{2x-1} > \frac{5}{x-2}$	$x < -\frac{7}{4} \vee \frac{1}{2} < x < 2$
40	$\frac{3}{4-x} < \frac{6}{4x-3}$	$\frac{3}{4} < x < \frac{11}{6} \vee x > 4$
41	$\frac{6}{2x+1} < \frac{5}{2-3x}$	$x < -\frac{1}{2} \vee \frac{1}{4} < x < \frac{2}{3}$
42	$\frac{7}{3x-1} < \frac{12}{5x+6}$	$-\frac{6}{5} < x < \frac{1}{3} \vee x > 54$
43	$\frac{8}{2x+5} \geq \frac{7}{3x-2}$	$-\frac{5}{2} < x < \frac{2}{3} \vee x \geq \frac{51}{10}$
44	$\frac{7x-5}{8x+3} > 4$	$-\frac{17}{25} < x < -\frac{3}{8}$
45	$\frac{2x-5}{4x+1} < 0$	$-\frac{1}{4} < x \leq \frac{5}{2}$
46	$\frac{2x}{x+1} \leq 0$	$-1 < x \leq 0$
47	$\frac{x-2}{x-16} < 0$	$2 < x < 16$
48	$\frac{3x+6}{2x-8} > 0$	$x < -2 \vee x > 4$
49	$\frac{3x+2}{4x+6} > 0$	$x < -\frac{3}{2} \vee x > -\frac{2}{3}$
50	$\frac{7x-2}{8-4x} < 0$	$x < \frac{7}{2} \vee x > 2$

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51	$\frac{7}{x-5} < 0$	$x < 5$
52	$\frac{2x}{1+x} > -3$	$x < -1 \vee x > -\frac{3}{5}$
53	$\frac{15}{7+x} - 15 \geq 0$	$-7 < x \leq -6$
54	$\frac{x-4}{3} - \frac{3}{x-4} \geq \frac{1}{3}x$	$\frac{7}{4} < x \leq 4$
56	$\frac{16}{2x-5} > 3$	$\frac{5}{2} < x < \frac{31}{6}$
57	$\frac{2x-3}{x-5} > 2$	$x > 5$
58	$\frac{1-x}{2x} \geq 0$	$0 < x \leq 1$
59	$\frac{3x-6}{2x+1} \geq 0$	$x < -\frac{1}{2} \vee x \geq 2$
60	$\frac{37-25x}{4x-5} > 0$	$\frac{5}{4} < x < \frac{37}{25}$
61	$\frac{3x-2}{5-3x} \geq 1$	$\frac{7}{6} \leq x < \frac{5}{3}$
62	$\frac{2x+1}{3x-4} < 2$	$x < \frac{4}{3} \vee x > \frac{9}{4}$
63	$\frac{1}{x} \leq 0$	$x < 0$
64	$\frac{2x-5}{4x+1} \leq 0$	$-\frac{1}{4} < x \leq \frac{5}{2}$
65	$\frac{6}{x-3} - \frac{5}{2} > 0$	$3 < x < \frac{27}{5}$
66	$5 - \frac{1+2x}{2x-1} \geq 0$	$x < \frac{1}{2} \vee x \geq \frac{3}{4}$
67	$\frac{x-5}{x+3} \leq 0$	$-3 < x \leq 5$

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68	$\frac{1}{2x-1} > -\frac{1}{3}$	$x < -1 \vee x > \frac{1}{2}$
69	$\frac{2}{3} - \frac{10}{3-x} > 0$	$x < -12 \vee x > 3$
70	$\frac{3}{8} < -\frac{5}{2x-4}$	$-\frac{14}{3} < x < 2$
71	$\frac{2}{4x+1} > -\frac{3}{2}$	$x < -\frac{7}{12} \vee x > -\frac{1}{4}$
72	$\frac{1-x}{3x} - 1 \geq 0$	$0 < x \leq \frac{1}{4}$
73	$\frac{4+10x}{4-3x} < 0$	$x < -\frac{2}{5} \vee x > \frac{4}{3}$
74	$\frac{2-x}{x+4} \geq 0$	$-4 < x \leq 2$
75	$5 < \frac{1+2x}{2x-1}$	$\frac{1}{2} < x < \frac{3}{4}$
76	$\frac{3x-15}{2x+4} > 0$	$x < -2 \vee x > 5$
77	$-\frac{5}{3} > \frac{4}{\frac{3}{2}-x}$	$\frac{3}{2} < x < \frac{39}{10}$
78	$\frac{\frac{3}{4}}{x-5} \geq \frac{1}{3}$	$5 < x \leq \frac{29}{4}$
79	$\frac{\frac{5}{3x-2}}{7} < 0$ $\frac{5}{x-2}$	$\frac{2}{3} < x < 2$
80	$\frac{(x-3)(2x-5)}{(4-3x)(3x-8)} \leq 0$	$\frac{5}{2} \leq x < \frac{8}{3} \vee x < \frac{4}{3} \vee x \geq 3$