

1. $3x^2 - 7x + 4 \leq 0.$
2. $3x^2 - 7x - 6 < 0.$
3. $x^2 - 14x - 15 > 0.$
4. $2 - x - x^2 \geq 0.$
5. $\frac{x-2}{x^2-9} < 0.$
6. $\frac{6x-5}{4x+1} < 0.$
7. $\frac{2x-3}{3x-7} > 0.$
8. $3x^2 - 7x + 6 < 0.$
9. $x^2 - 3x + 5 > 0.$
10. $\frac{x^2-5x+6}{x^2+x+1} < 0.$
11. $\frac{x^2+2x-3}{x^2+1} < 0.$
12. $\frac{x^4+x^2+1}{x^2-4x-5} > 0$
13. $\frac{x^2-7x+12}{2x^2+4x+5} > 0.$
14. $\frac{1+3x^2}{2x^2-21x+40} < 0.$
15. $\frac{x^4+x^2+1}{x^2-4x-5} > 0.$
16. $\frac{1-2x-3x^2}{3x-x^2-5} > 0.$
17. $\frac{x^2-5x+7}{-2x^2+3x+2} > 0.$
18. $\frac{x}{x^2-3x-4} > 0.$
19. $\frac{x^2+7x+10}{x+2/3} > 0.$
20. $\frac{3x^2-4x-6}{2x-5} < 0.$
21. $\frac{17-15x-2x^2}{x+3} < 0.$
22. $\frac{x^2-9}{3x-x^2-24} < 0.$
23. $\frac{x^2-x-6}{x^2+6x} \geq 0.$
24. $\frac{x^2-5x+6}{x^2-11x+30} < 0.$
25. $\frac{x^2-4x+5}{x^2+5x+6} \geq 0$
26. $\frac{x-1}{x^2-x-12} \leq 0$
27. $\frac{0.5}{x-x^2-1} < 0.$
28. $\frac{1+x^2}{2x^2-5x+6} < 0.$
29. $\frac{5x+4}{3+x} - \frac{2+x}{1-x} \leq 0$
30. $\frac{x+7}{x-5} + \frac{3x+1}{2} \geq 0.$
31. $2x^2 + \frac{1}{x} > 0.$
32. $\frac{14x}{x+1} - \frac{9x-30}{x-4} < 0.$
33. $\frac{4x+19}{x+5} < \frac{4x-17}{x-3}.$
34. $\frac{x}{x+2} \leq \frac{1}{x}.$
35. $\frac{x}{x-3} \leq \frac{1}{x}.$
36. $\frac{x-1}{x+1} < x.$
37. $\frac{1}{x+2} < \frac{3}{x-3}.$
38. $\frac{4x+3}{2x-5} < 6.$
39. $\frac{5x-6}{x+6} < 1.$
40. $\frac{5x-8}{4-x} < 2.$
41. $\frac{x-1}{x+3} > 2.$
42. $\frac{7x-5}{8x+3} > 4.$
43. $\frac{x}{x-5} > \frac{1}{2}.$
44. $\frac{3}{x-2} < 1.$
45. $\frac{1}{x-1} \leq 2.$
46. $\frac{1}{x} < 1.$
47. $\frac{x^2-1}{2x+5} < 3.$
48. $\frac{x^2+1}{4x-3} > 2.$
49. $\frac{x^2+2}{x^2-1} < -2.$
50. $\frac{3x-5}{x^2+4x-5} > \frac{1}{2}$
51. $\frac{2x+3}{x^2+x-12} \leq \frac{1}{2}$
52. $\frac{5-2x}{3x^2+2x-16} < 1.$
53. $\frac{15-4x}{x^2-x-12} < 4.$
54. $\frac{1}{x^2-5x+6} \geq \frac{1}{2}.$
55. $\frac{5-4x}{3x^2-x-4} < 4.$
56. $\frac{19-33x}{7x^2-11x+4} > 2.$
57. $\frac{5x-1}{x^2+3} < 1.$

$$58. \frac{x^2 - x}{x^2 + 1} < -\frac{1}{2}.$$

$$59. \frac{x^2 - 1}{x^2 + x + 1} < 1.$$

$$60. \frac{x^2 + 6x - 7}{x^2 + 1} < 2.$$

$$61. \frac{2x^2 - 3x - 459}{x^2 + 1} > 1.$$

$$62. \frac{5x^2 - 2}{4x^2 - x + 3} < 1.$$

$$63. \frac{x^2 - 5x + 12}{x^2 - 4x + 5} > 3.$$

$$64. \frac{x^2 - 3x + 24}{x^2 - 3x + 3} < 4.$$

$$65. \frac{0.5x + 49}{10x^2 - x - 2} < \frac{1}{2}.$$

$$66. \frac{4}{1+x} + \frac{2}{1-x} < 1.$$

$$67. 2 + \frac{3}{x-1} > \frac{2}{x}.$$

$$68. 1 + \frac{2}{x-1} > \frac{6}{x}.$$

$$69. \frac{4}{x+2} > 3 - x$$

$$70. x \leq \frac{6}{x-5}$$

$$71. x - 17 \geq \frac{60}{x}$$

$$72. \frac{30x - 9}{x - 2} \geq 25(x + 2)$$

$$73. \frac{x+1}{x-1} \geq \frac{x+5}{x+1}.$$

$$74. \frac{1}{x-2} - \frac{1}{x} \leq \frac{2}{x+2}$$



Pinnacle™

IIT-JEE | NEET | Pre-Foundation