

$$1. \frac{3x-1}{2} - \frac{x-1}{3} < 2x-1$$

$$2. 4x+9-2(3x-5) \geq \frac{x+1}{3} - 1$$

$$3. \frac{x-9}{5} - \frac{5x-13}{15} \leq \frac{4x}{3} + 10$$

$$4. \frac{2x-5}{9} - \frac{4x-1}{6} < -\frac{5x}{18}$$

$$5. \frac{3-5x}{3} - \frac{1-8x}{4} - \frac{23-10x}{12} < 0$$

$$6. (3x+1)^2 - 5x^2 + 2x \leq (2x-1)^2$$

$$7. \begin{cases} 2-4x < 8 \\ 7x+2 > 2x-1 \end{cases}$$

$$8. \begin{cases} 3-2x \geq 7x+12 \\ 2x+3 < 3x-15 \end{cases}$$

$$9. \begin{cases} 4-3(x-1) > 2x-3 \\ 3(x-1)+1 \geq -5 \end{cases}$$

$$10. \begin{cases} 2\left(2x-\frac{5}{2}\right) - 3\left(x+\frac{1}{3}\right) \leq 3-x \\ -\frac{x}{3} + \frac{7x-6}{6} < 1 + \frac{x}{3} \end{cases}$$

$$11. \begin{cases} \frac{2x-11}{3} - \frac{x+1}{6} \leq 0 \\ \frac{4x+6}{5} \leq \frac{7x}{10} + \frac{x+7}{2} \end{cases}$$

$$12. \begin{cases} 9x(x+3)-1 \leq 5+(3x-1)^2 \\ 6(x+13) \leq \frac{x+1}{2} - \frac{x-1}{3} \end{cases}$$

$$13. \begin{cases} \frac{5-4x}{4} + \frac{9x-21}{2} \geq 2 + \frac{10x-37}{4} \\ x + \frac{3x-2}{5} - \frac{x-1}{3} < 3 + \frac{4x-1}{15} \end{cases}$$

$$14. 2 \leq x-5 \leq 6$$

$$15. -3 < 2x-6 < 5$$

$$16. -2x < 4+5x \leq 8$$

$$17. |x-5| \leq 1$$

$$18. \left|x - \frac{1}{2}\right| < \frac{1}{10}$$

$$19. \left|x + \frac{5}{3}\right| < 3$$

$$20. \left|2x + \frac{1}{9}\right| < 1$$

$$21. |3x-2| + 4 < 2$$

$$22. 4|7-3x| - 5 \leq 3$$

$$23. (x-3)(x+2) \geq 0$$

$$24. (x-6)(x^2+1) < 0$$

$$25. (2x-1)(3x+5) \leq 0$$

$$26. x^2 - 4 < 0$$

$$27. x^2 - 6x + 8 < 0$$

$$28. x^2 - 3x - 10 \geq 0$$

$$29. -6x^2 - x + 1 > 0$$

$$30. \frac{3x-1}{2x+5} \leq 0$$

$$31. \frac{3x-1}{2x+5} \geq 0$$

$$32. \frac{2x}{x^2+1} < 0$$

$$33. \frac{25}{x^2-1} \leq 0$$

$$34. \frac{4}{x^2-9x+18} \geq 0$$

$$35. \frac{2x}{x^2+1} < 1$$

$$36. \frac{5-2x}{3x-9} < 1$$

$$37. \frac{x^2+1}{5x} \leq \frac{1}{2}$$

$$38. \frac{x-5}{x} + 5 \geq x$$

$$39. \frac{x-1}{x+1} > \frac{x+1}{x-1}$$

$$40. \frac{x^2-6}{2x+3} < 0$$

$$41. x(3x-1)(x+2) < 0$$

$$42. x^3 - 6x^2 + 11x - 6 \geq 0$$

43. $x^4 - 5x^2 + 4 \geq 0$

44. $\frac{x^2 - 8x + 15}{x^2 - 4} < 0$

45. $\begin{cases} x^2 \leq 6x + 7 \\ 2x - 3 < 4 \end{cases}$

46. $\begin{cases} 2x^2 - 3x > 5 \\ x - 1 < 3x + 2 \end{cases}$