

SELF ASSESSMENT TEST -3**CLASS 10+1**

LINEAR INEQUATIONS

1. Solve $\frac{5x-2}{3} - \frac{7x-3}{5} > \frac{x}{4}$
2. Solve $\frac{x-1}{3} + 4 < \frac{x-5}{5} - 2$
3. Solve $\frac{x-2}{x+5} > 2$.
4. Solve $\frac{2x-3}{3x-7} > 0$.
5. Solve $-5 < \frac{2-3x}{4} < 9$
6. Solve $|x-2| \geq 5$.
7. Solve $\frac{5x}{4} + \frac{3x}{8} > \frac{39}{8}$, $\frac{2x-1}{12} - \frac{x-1}{3} < \frac{3x+1}{4}$
8. Solve $\frac{2x+1}{7x-1} > 5$, $\frac{x+7}{x-8} > 2$.
9. Solve $1 \leq |x-2| \leq 3$.
10. Solve $\left| \frac{2}{x-4} \right| > 1$, $x \neq 4$.
11. Solve graphically $2x + 3y \leq 6$, $3x + 2y \leq 6$, $x \geq 0$, $y \geq 0$.
12. Solve graphically $x - 2y \geq 0$, $2x - y \leq -2$, $x \geq 0$, $y \geq 0$
13. Solve graphically $x - y \leq 1$, $x + 2y \leq 8$, $2x + y \geq 2$, $x \geq 0$, $y \geq 0$.
14. Solve $|x-1| + |x-2| \geq 4$.