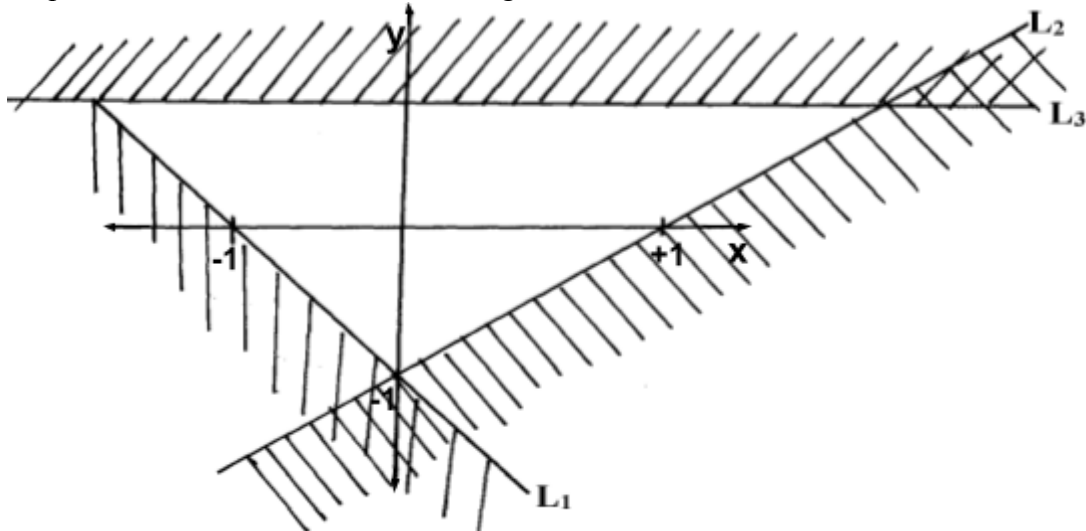


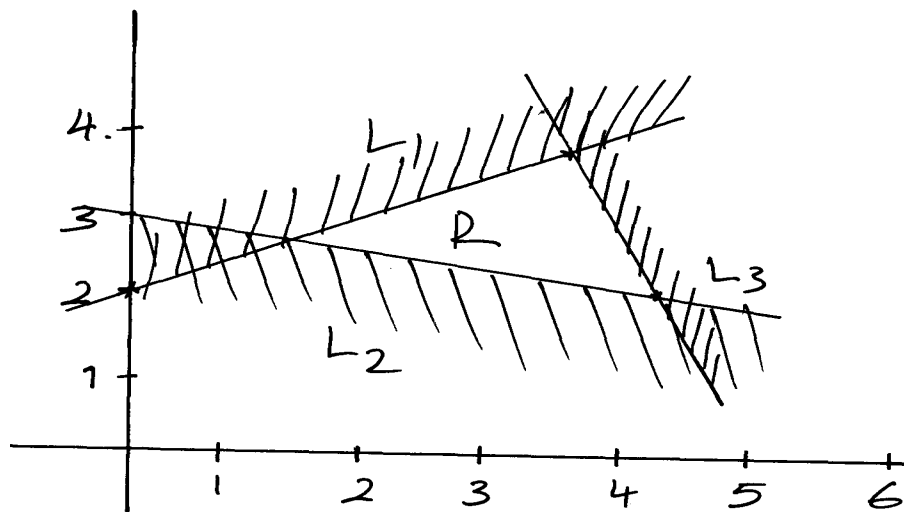
1. Linear inequalities

- Find without using a calculator, the value of :

$$\frac{12\sqrt{0.0625} - 12.4 \div 0.4 \times 3}{\frac{1}{8} \text{ of } 2.56 + 8.68}$$
- Solve and write down all the integral values satisfying the inequality.
 $X - 9 \leq -4 < 3x - 4$
- Solve the inequality and show the solution on the number line.
 $3 - 2x < x < 2x + 5$
- Show on a number line the range of all integral values of x which satisfy the following pair of inequalities:
 $3 - x \leq 1 - \frac{1}{2}x$
 $-\frac{1}{2}(x-5) \leq 7-x$
- Solve the inequalities $4x - 3 \leq 6x - 1 < 3x + 8$; hence represent your solution on a number line
- Find all the integral values of x which satisfy the inequalities
 $2(2-x) < 4x - 9 < x + 11$
- Find the inequalities that define the unshaded region



- Given that $x + y = 8$ and $x^2 + y^2 = 34$
Find the value of:-
a) $x^2 + 2xy + y^2$
b) $2xy$
- Find the inequalities satisfied by the region labelled **R**



10. The region R is defined by $x \geq 0$, $y \geq -2$, $2y + x \leq 2$. By drawing suitable straight line on a sketch, show and label the region R
11. Find all the integral values of x which satisfy the inequality $3(1+x) < 5x - 11 < x + 45$
12. The vertices of the unshaded region in the figure below are $O(0, 0)$, $B(8, 8)$ and $A(8, 0)$. Write down the inequalities which satisfy the unshaded region

