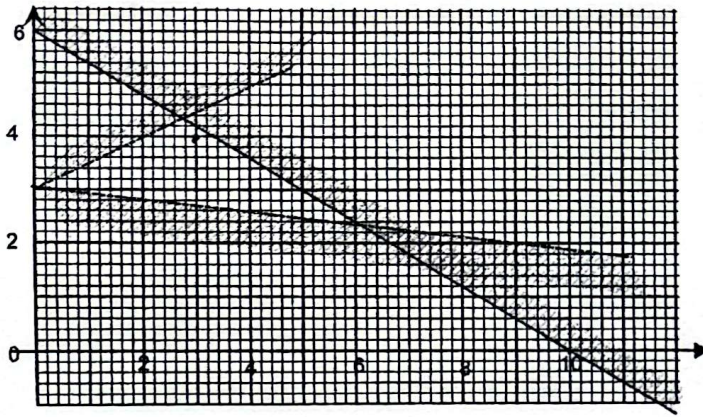


7. Below is a diagram of a region bounded by a set of linear inequalities.



Determine the inequalities.

(3 marks)

$$3x + 5y \leq 30 \quad \checkmark B_1$$

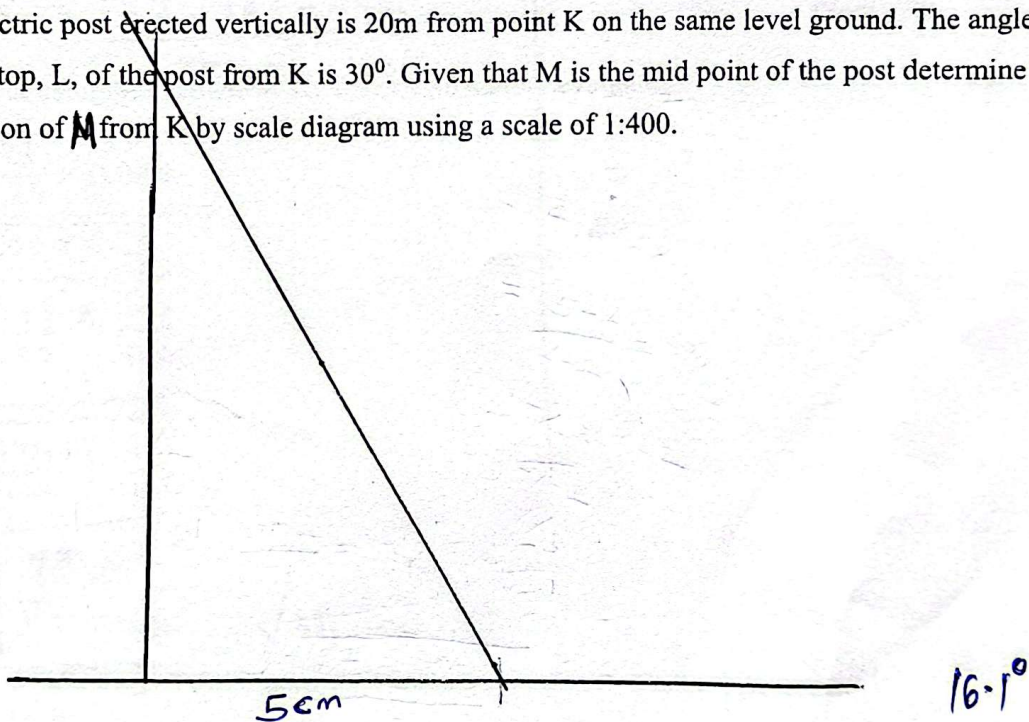
$$\cancel{x + y \leq 27} \quad \checkmark B_1$$

$$x + y > 27$$

$$\cancel{2x - y > 0} \quad \checkmark B_1$$

$$2y - x < 6$$

8. An electric post erected vertically is 20m from point K on the same level ground. The angle of elevation of the top, L, of the post from K is 30° . Given that M is the mid point of the post determine the angle of elevation of M from K by scale diagram using a scale of 1:400. (3 marks)



b) Complete the frequency distribution table below using the histogram above.

(2 m)

Amount (Ksh)	Frequency
20-24	5
25-29	7
30-34	9
35-44	6
45-59	3

} $\sqrt{B_1}$
} $\sqrt{B_1}$

c) Calculate the average amount of money in Kenya shillings spent by each teacher on that particular day.

(3 mar)

$$fx_s \quad 110, 189, 288, 237, 156 \quad \sqrt{B_1}$$

$$\begin{aligned} \text{Mean Ammt} &= \frac{110 + 189 + 288 + 237 + 156}{30} \sqrt{M_1} \\ &= 32.6 \sqrt{A_1} \end{aligned}$$

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