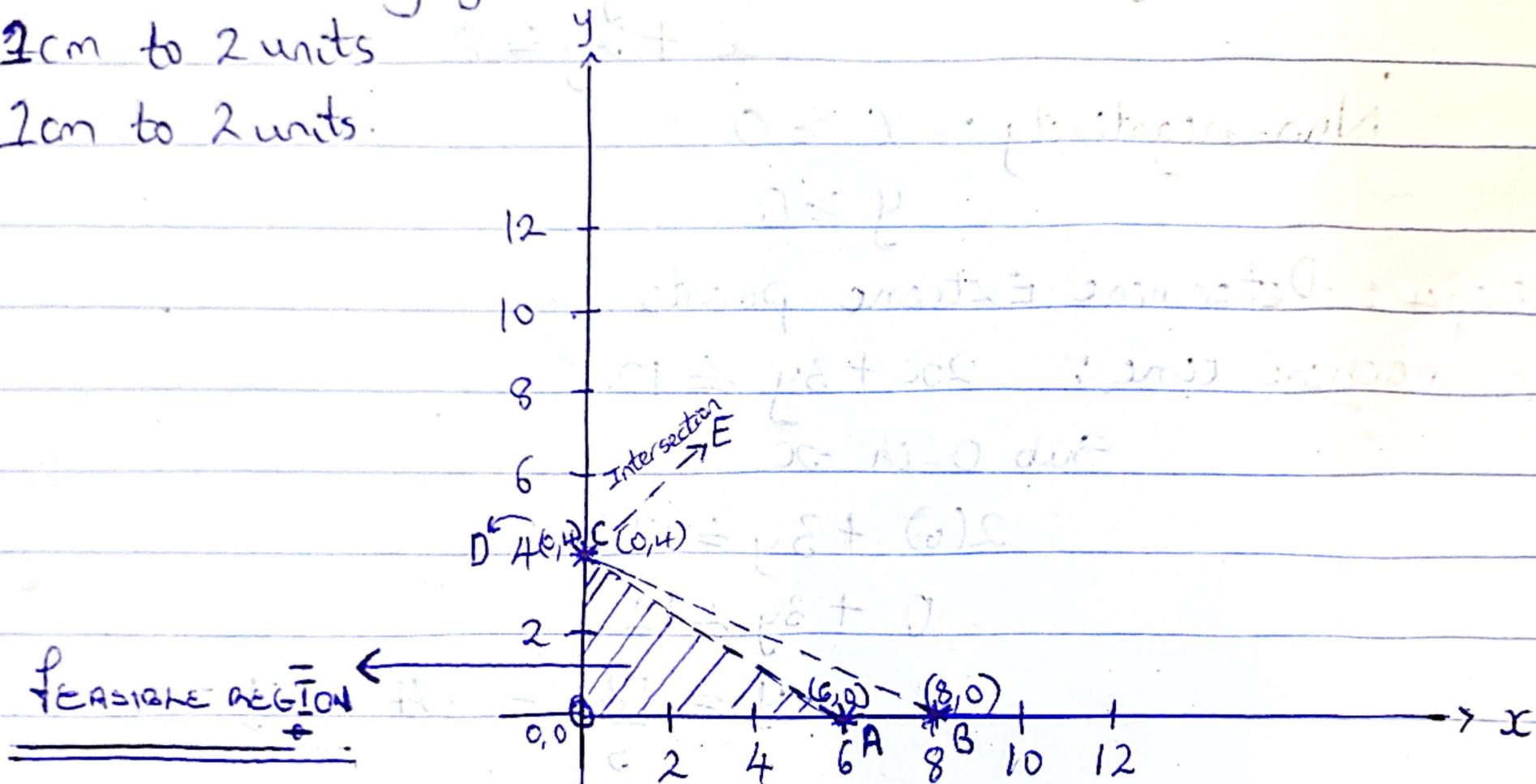


Step 5: Represent using graphical method

x axis: 1cm to 2 units

y axis: 1cm to 2 units.



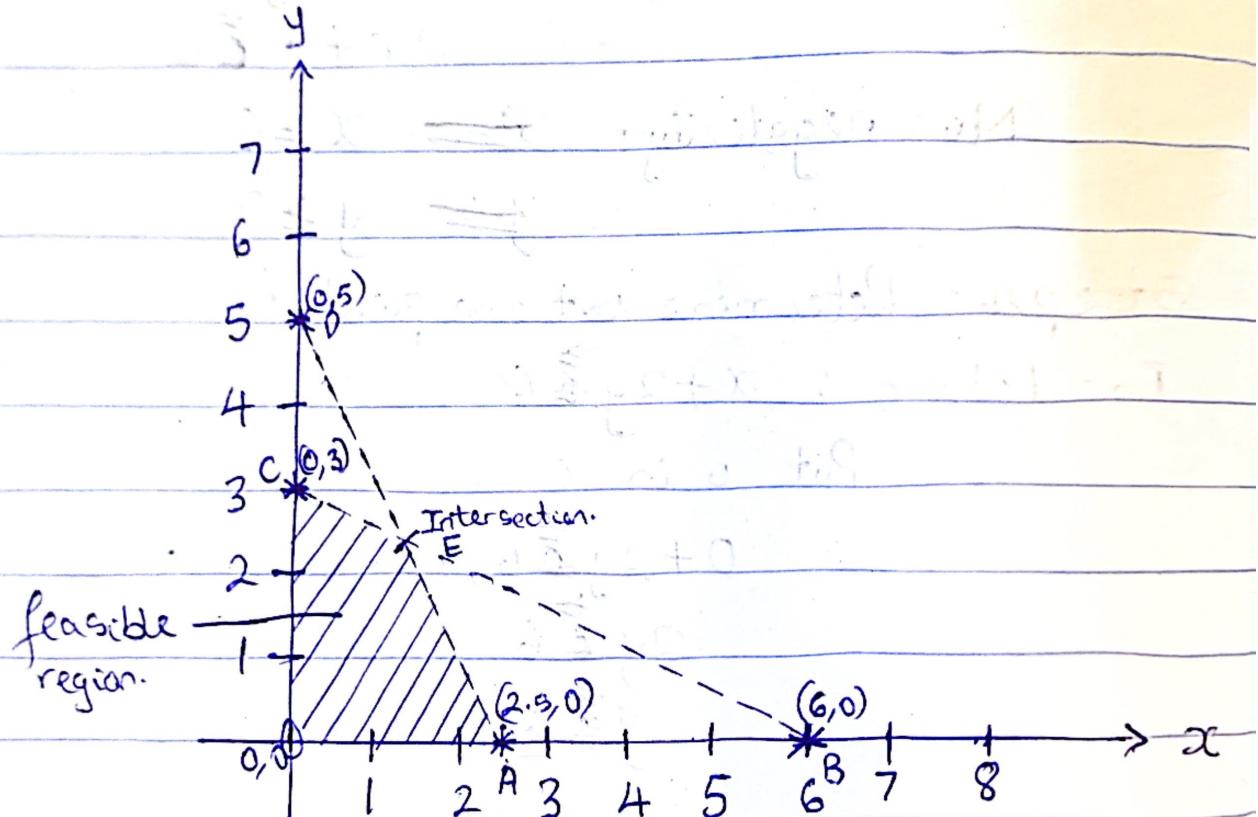
$$= (6, 3)$$

For material, extreme points: $(0, 5), (2.5, 0)$
 $= (2.5, 5)$

Step 5: Represent using the graphical method:

Scale: x axis: 1 cm to 1 unit

y axis: 1 cm to 1 unit



Step

Extreme points:

$$O(0,0)$$

$\therefore (10, 1)$

Step 5: Representation on a graph-

x-axis
Scale: 2cm to 5 units

y-axis: 2cm to 5 units

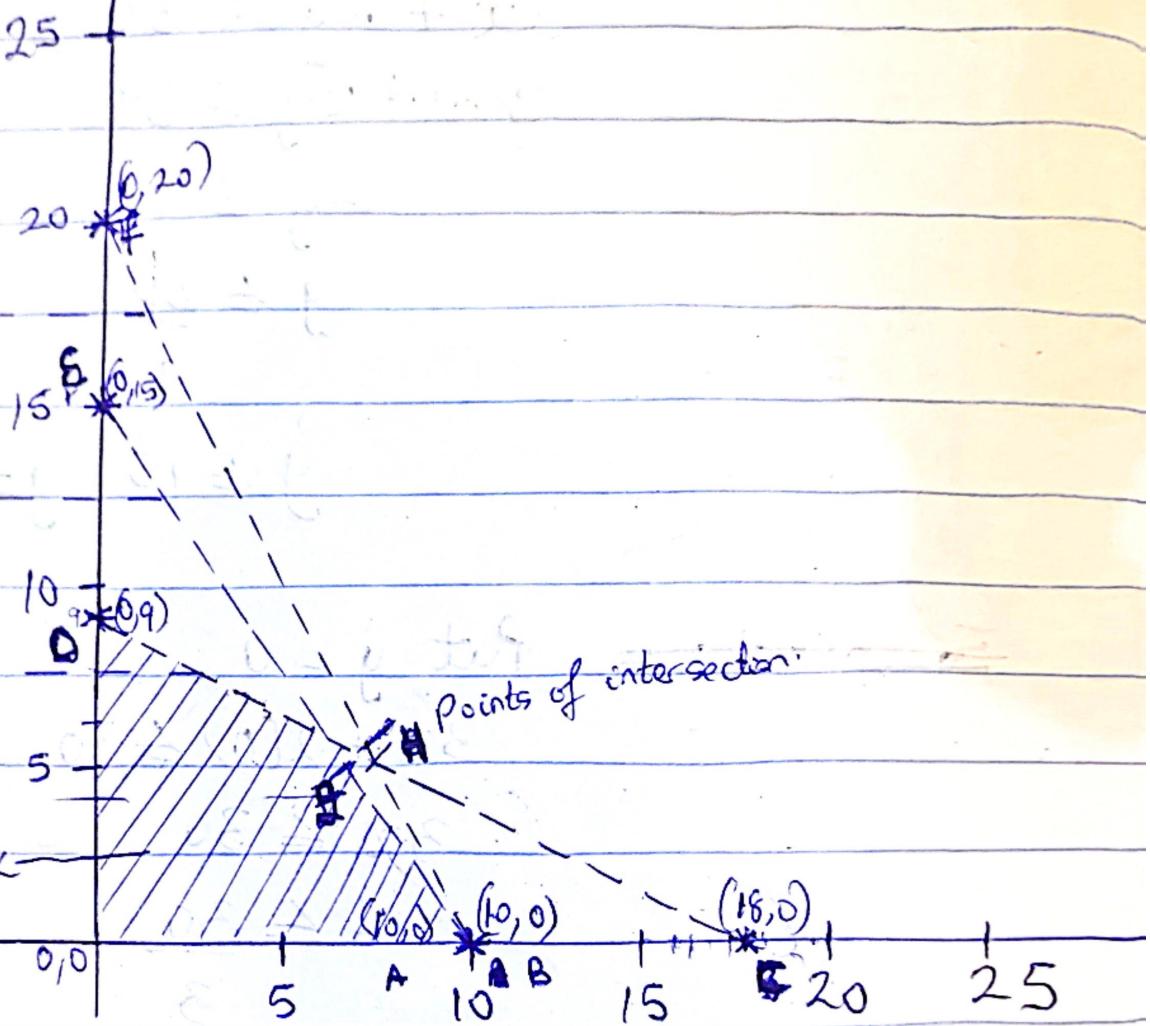
$$2x + y \leq 20$$

$$3x + 2y \leq 30$$

$$x + 2y \leq 18$$

G

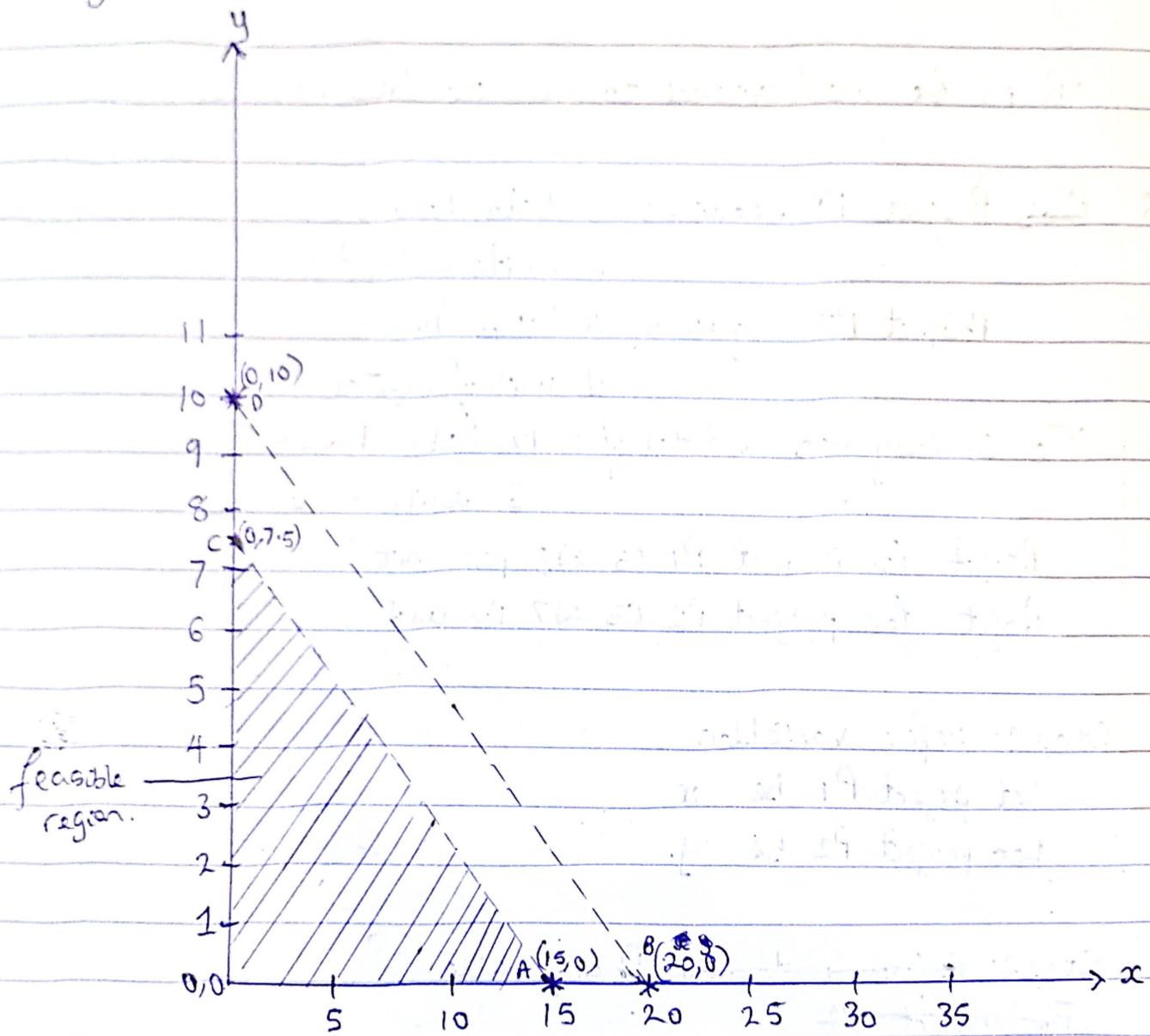
feasible
region



Step 5: Represent using graphical method.

scale: x axis - 2 cm to 5 units

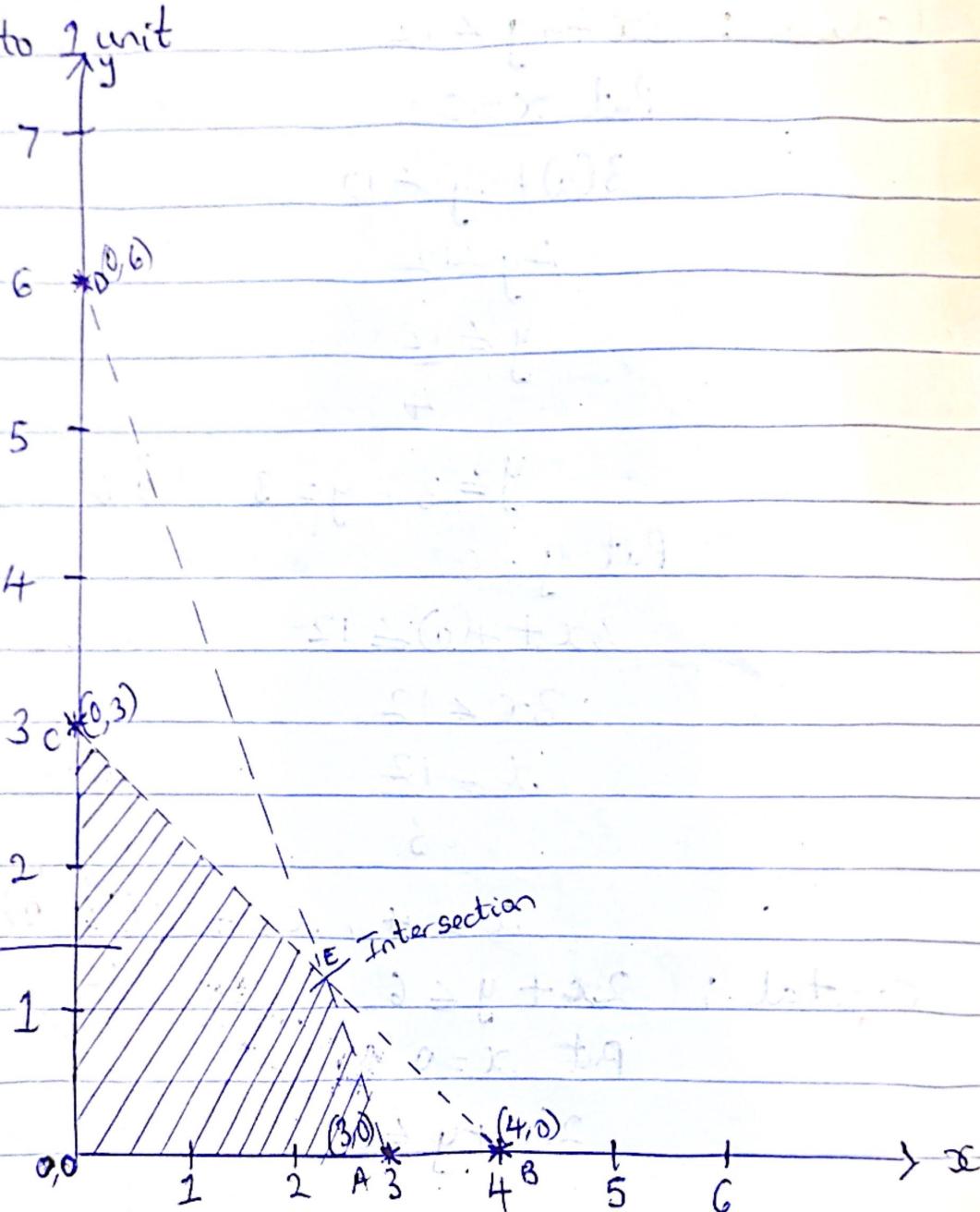
y axis - 1 cm to 1 units.



Step 5 : Represent using graphical method.

Scale : x axis : 2cm to 1 unit

y axis : 2cm to 1 unit

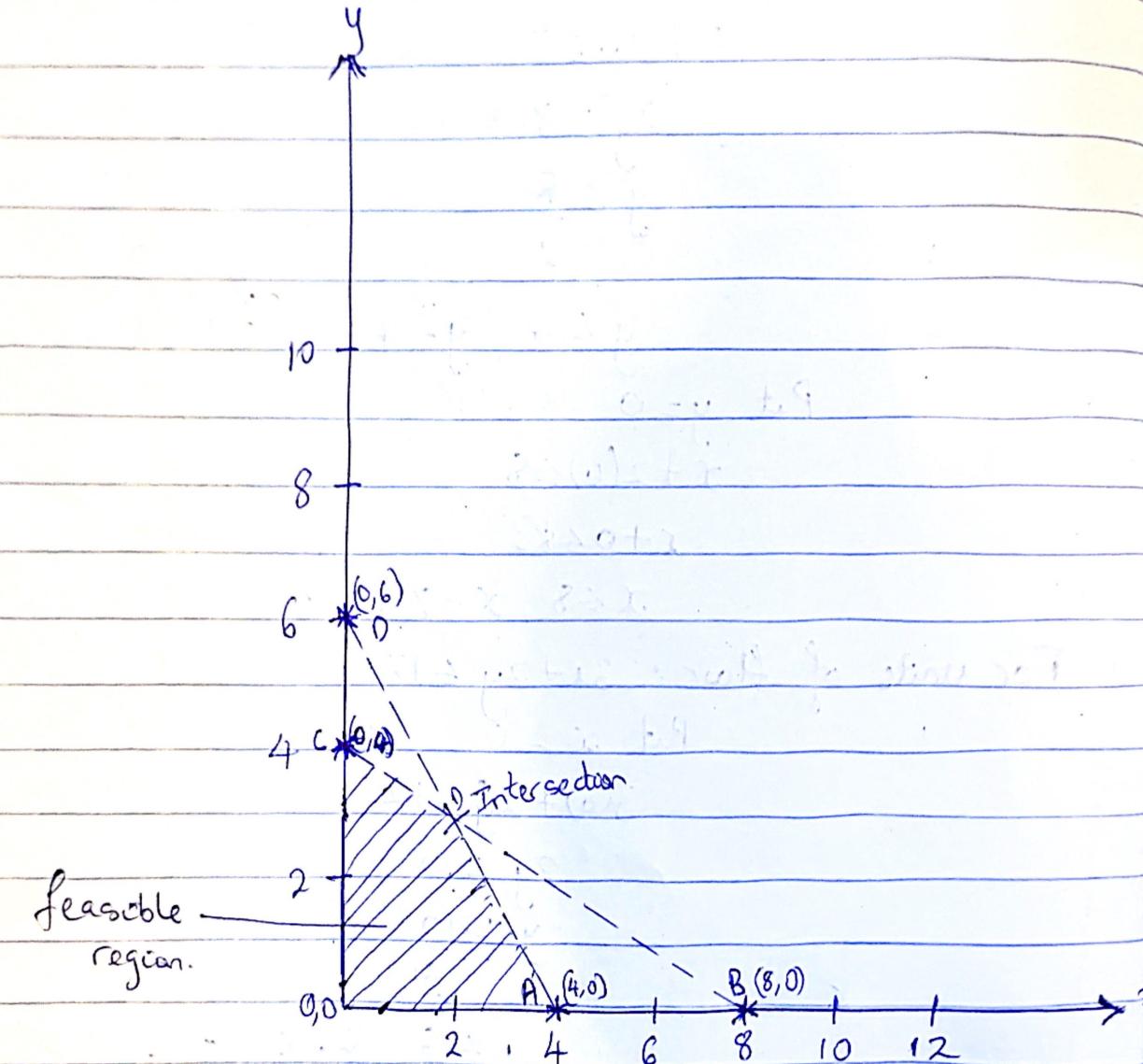


$$= (4, 6)$$

Step 5: Represent using Graphical method.

Scale: $\frac{x\text{-axis}}{2\text{ cm}} = 2 \text{ units}$

y-axis: $2\text{ cm} = 2 \text{ units}$



$$= (6, 4.5)$$

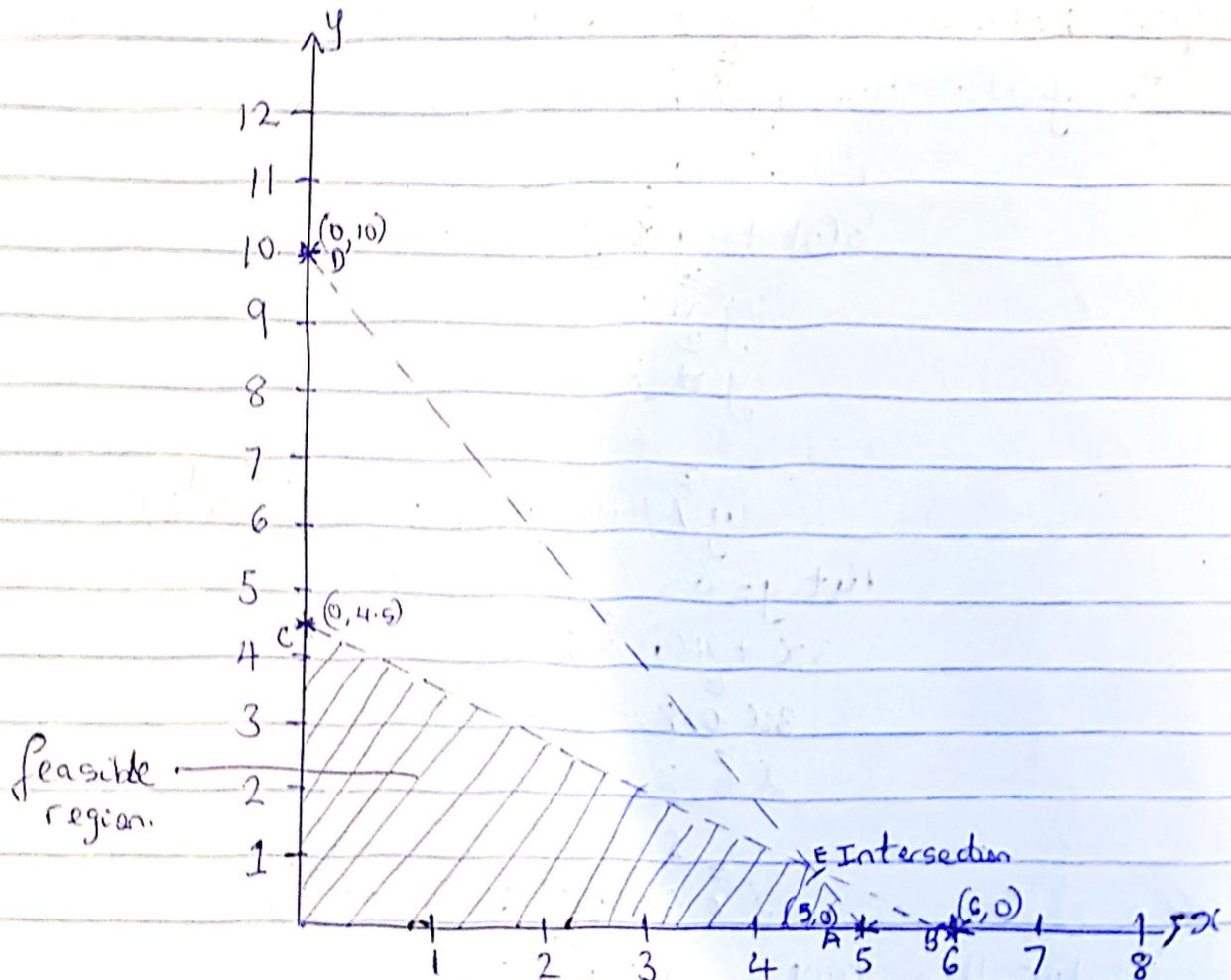
$$\text{For Driver time: } (0, 10), (5, 0)$$

$$= (5, 10)$$

Step 5: Draw graph.

Scale: x-axis 1 cm to 1 unit

y-axis 1 cm to 1 unit

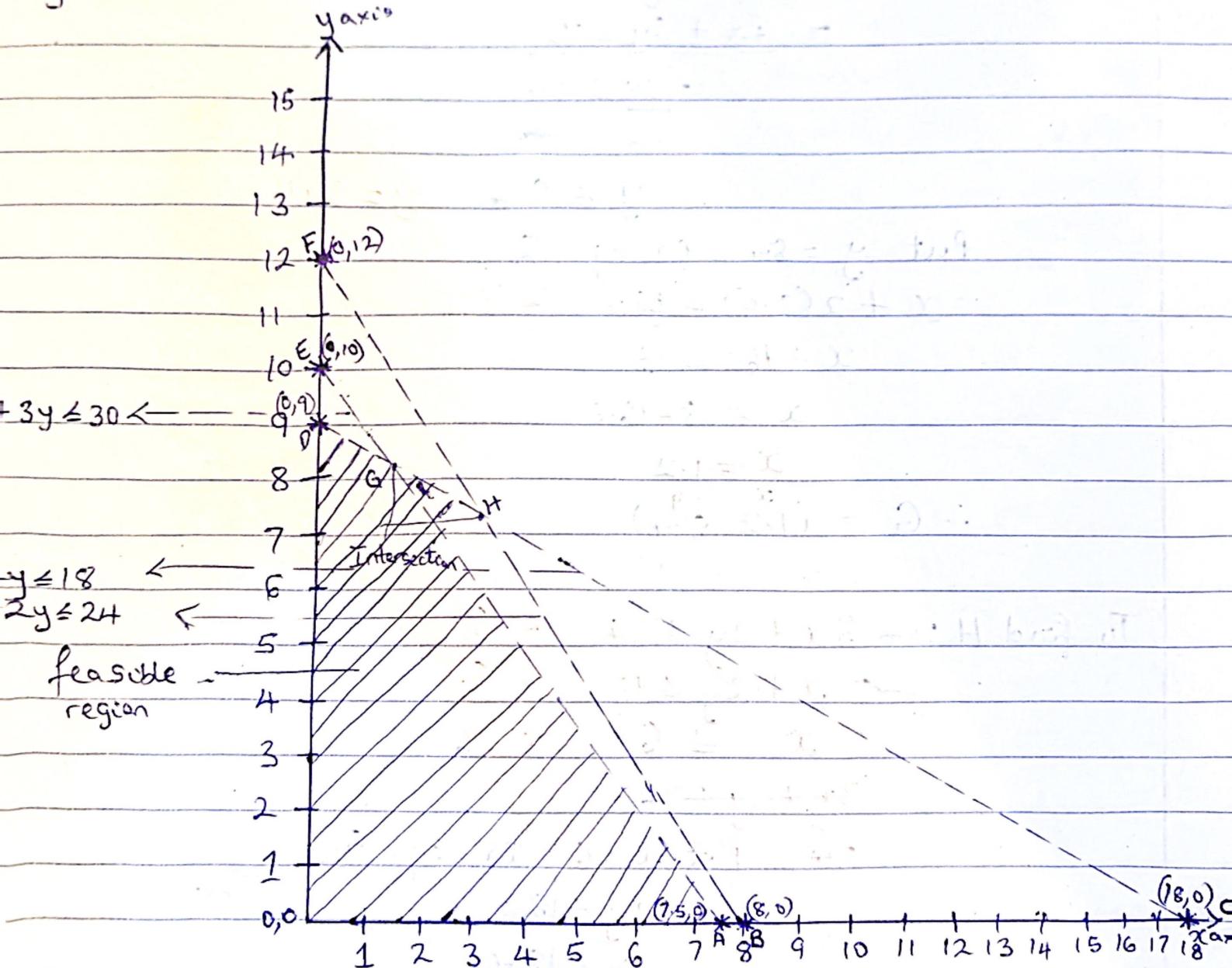


Point 11. Put it on a graph into the graph.

Step 5: Represent using graphical method.

i.e. x axis - 1 cm to 1 unit

y axis - 1 cm to 1 unit.



Feasible region: Put $x=0, y=0$ into the constraints.

$$4x + 3y \leq 30 \rightarrow 0 \leq 30$$

$$2x + y \leq 10 \rightarrow 0 \leq 10$$

$$x = 1.42 \quad (1.42, \underline{y})$$

Extreme points for all:

Television: $(1.25, 1.67)$

Print media: $(2.25, 1.8)$

Social media: $(3, 2)$

Budget $(1.42, 1.42)$.

Step 5: Represent using graphical method.

Scale: x axis - 1cm to 0.25 units.

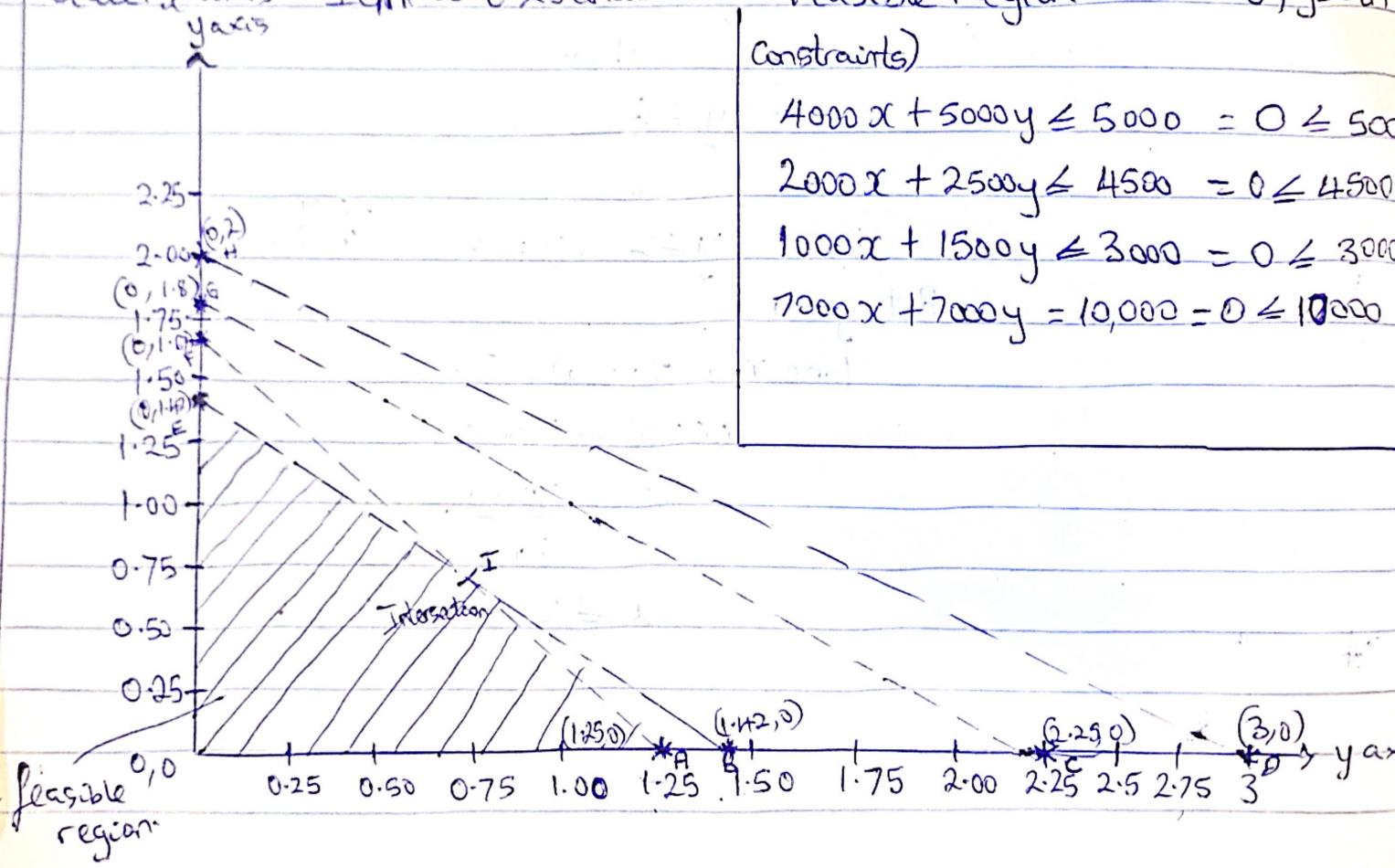
Feasible region (Put $x=0, y=0$ in constraints)

$$4000x + 5000y \leq 5000 \Rightarrow 0 \leq 5000$$

$$2000x + 2500y \leq 4500 \Rightarrow 0 \leq 4500$$

$$1000x + 1500y \leq 3000 \Rightarrow 0 \leq 3000$$

$$7000x + 7000y = 10,000 \Rightarrow 0 \leq 10,000$$



Extreme points:

For meat: $(15, 7.5)$

Vegetables: $(8, 12)$

Rice: $(20, 0)$

Steps: Represent using graphical method.

Scale: x-axis 1cm to 1 unit, y-axis 1cm to 1 unit

