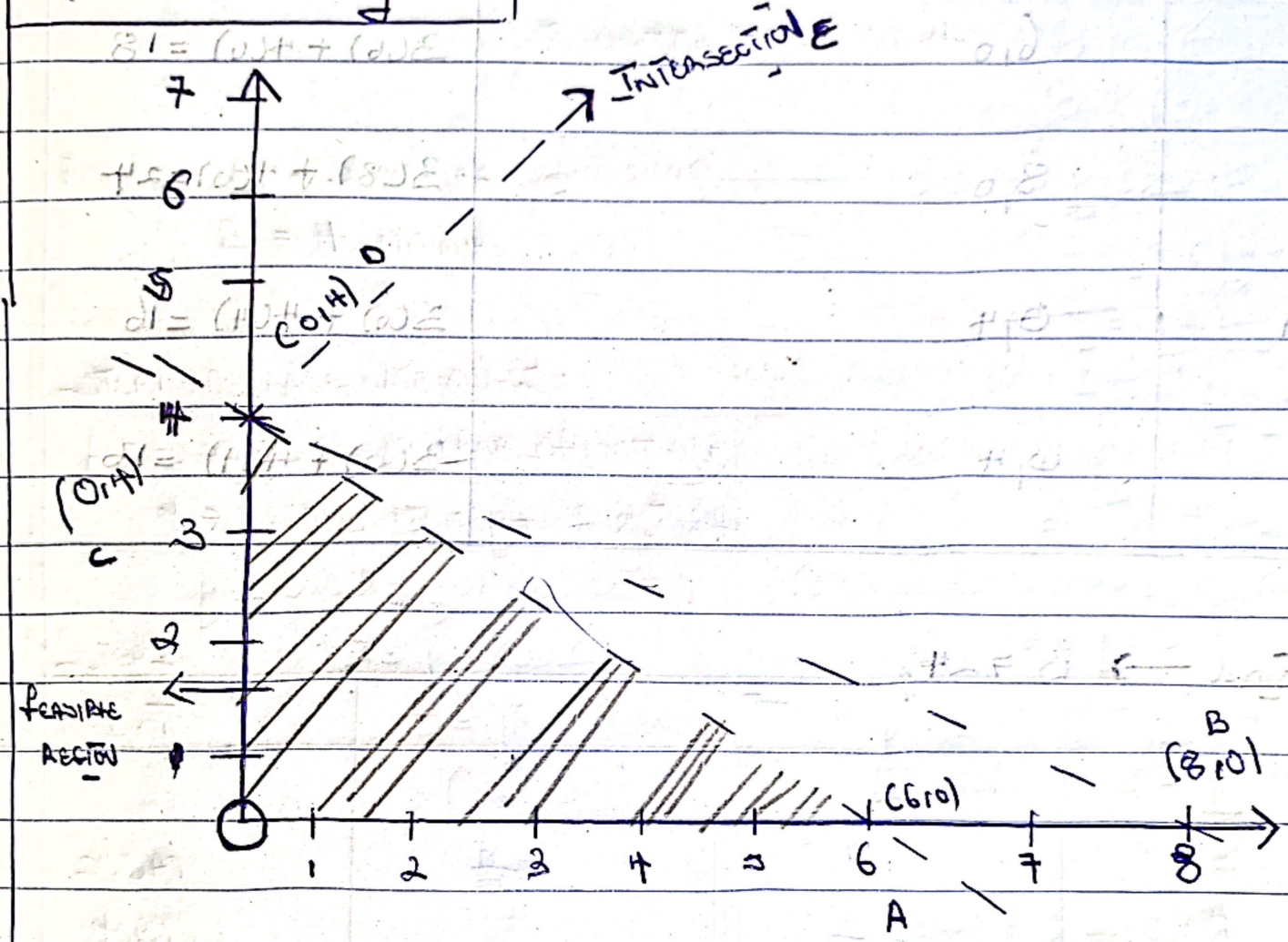
for my graph maximum on $x = 8$

VALUE ON $y = 4$

SCALE 1cm rep 1 unit on x

SCALE -- on y.



EXTREME REGION

O(0,0)

A(6,0)

B(8,0)

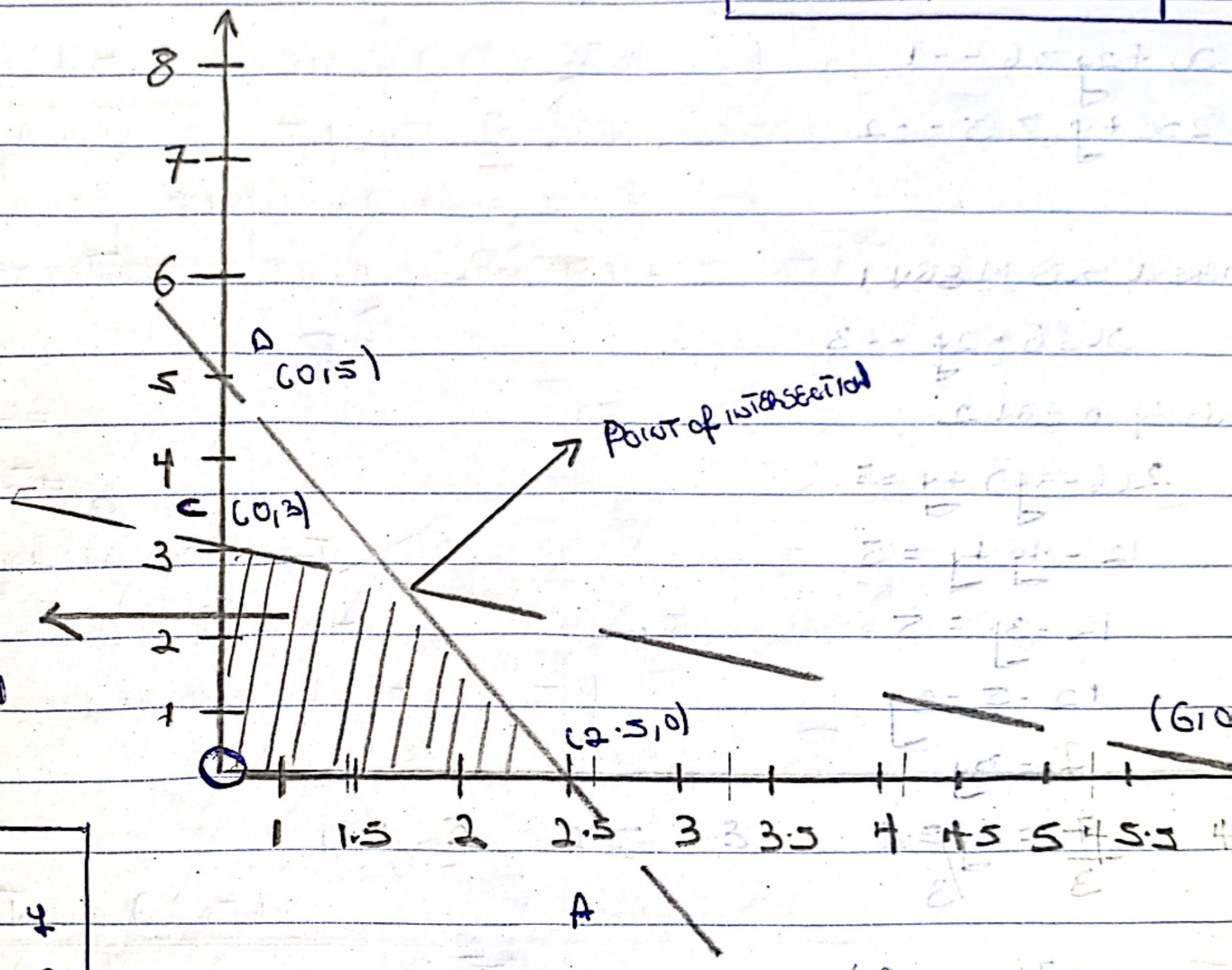
C(0,4)

D(0,4)

CONSTRUCTION

SCALE ON x AXIS 1cm rep 0.5

Y AXIS 1cm rep 1 u



x	y
6	3
2.5	5

→ CO-ORDINATES ON GRAPH

EXTREME POINTS

O, (0,0)

A (2.5, 0)

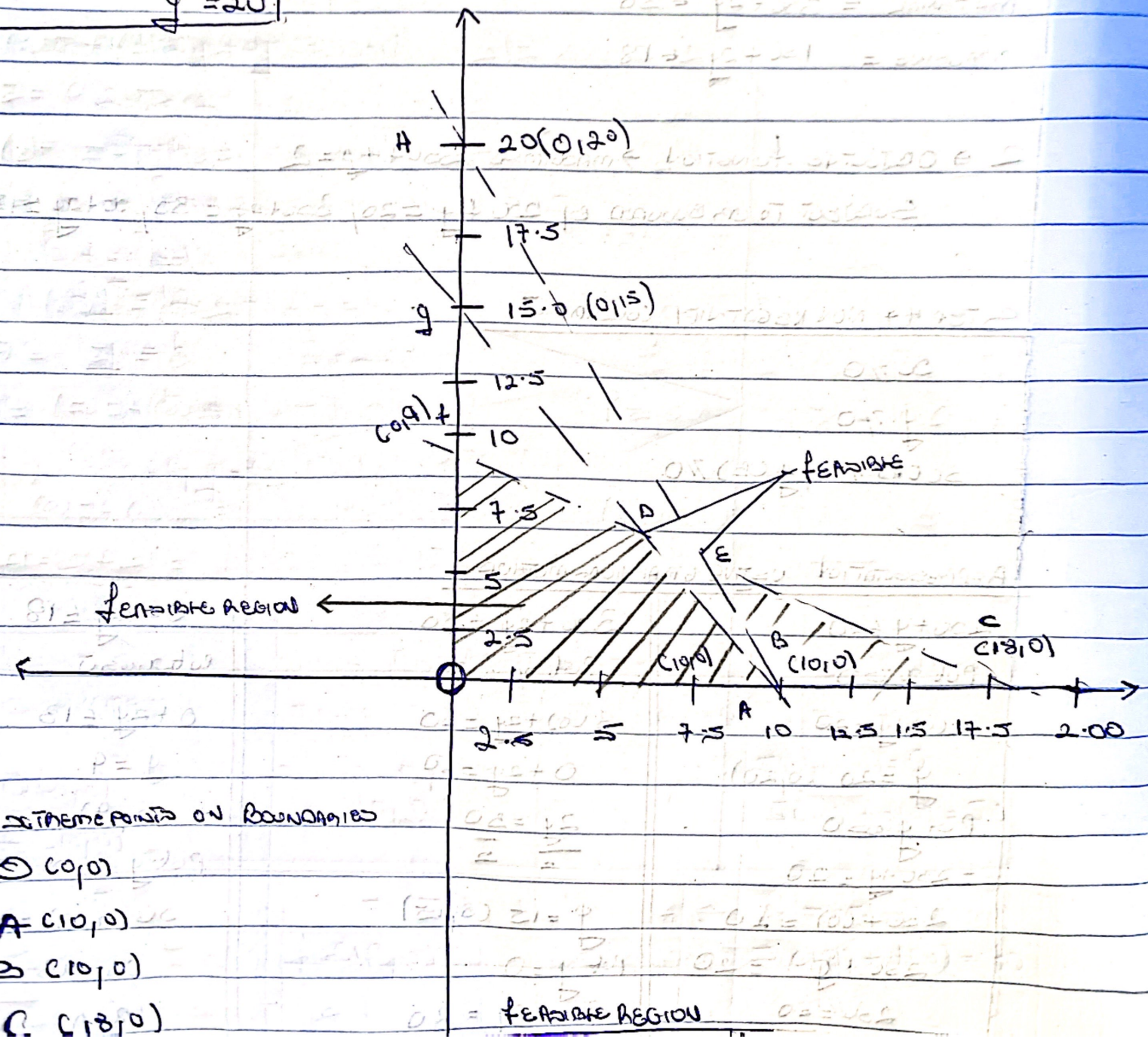
GRAPH

SCALE ON x-AXIS 1CM 2.5 UNIT

y-AXIS 1CM 2.5 UNIT

MAXIMUM OF $x = 18$

$y = 20$



= EXTREME POINTS ON BOUNDARIES

O $(0,0)$

A $(10,0)$

B $(10,0)$

C $(18,0)$

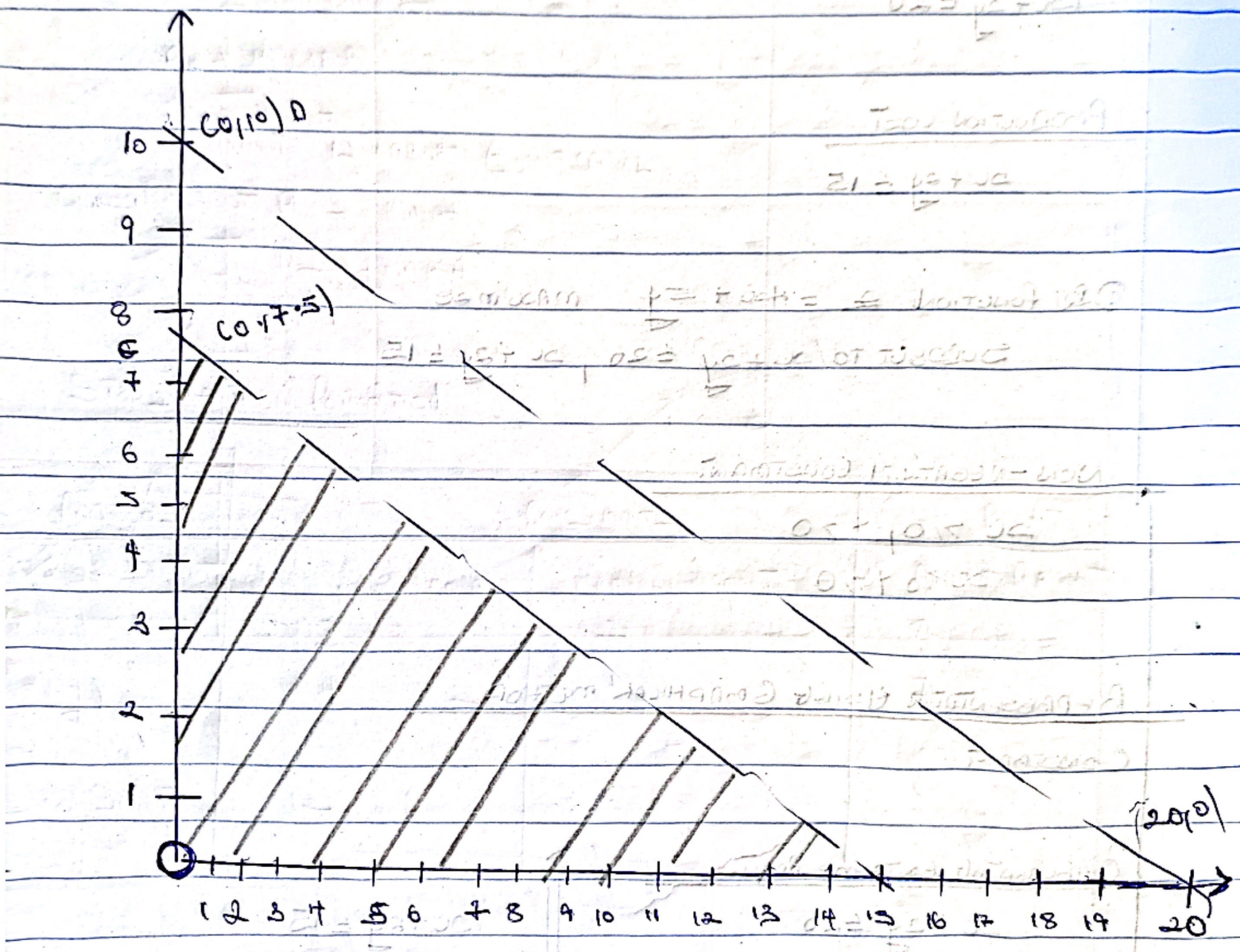
= FEASIBLE REGION

for my graph highest point on $x = 20$

$y = 10$

Scale = 1cm to rep 1 unit on x

1cm to rep 1 unit on y



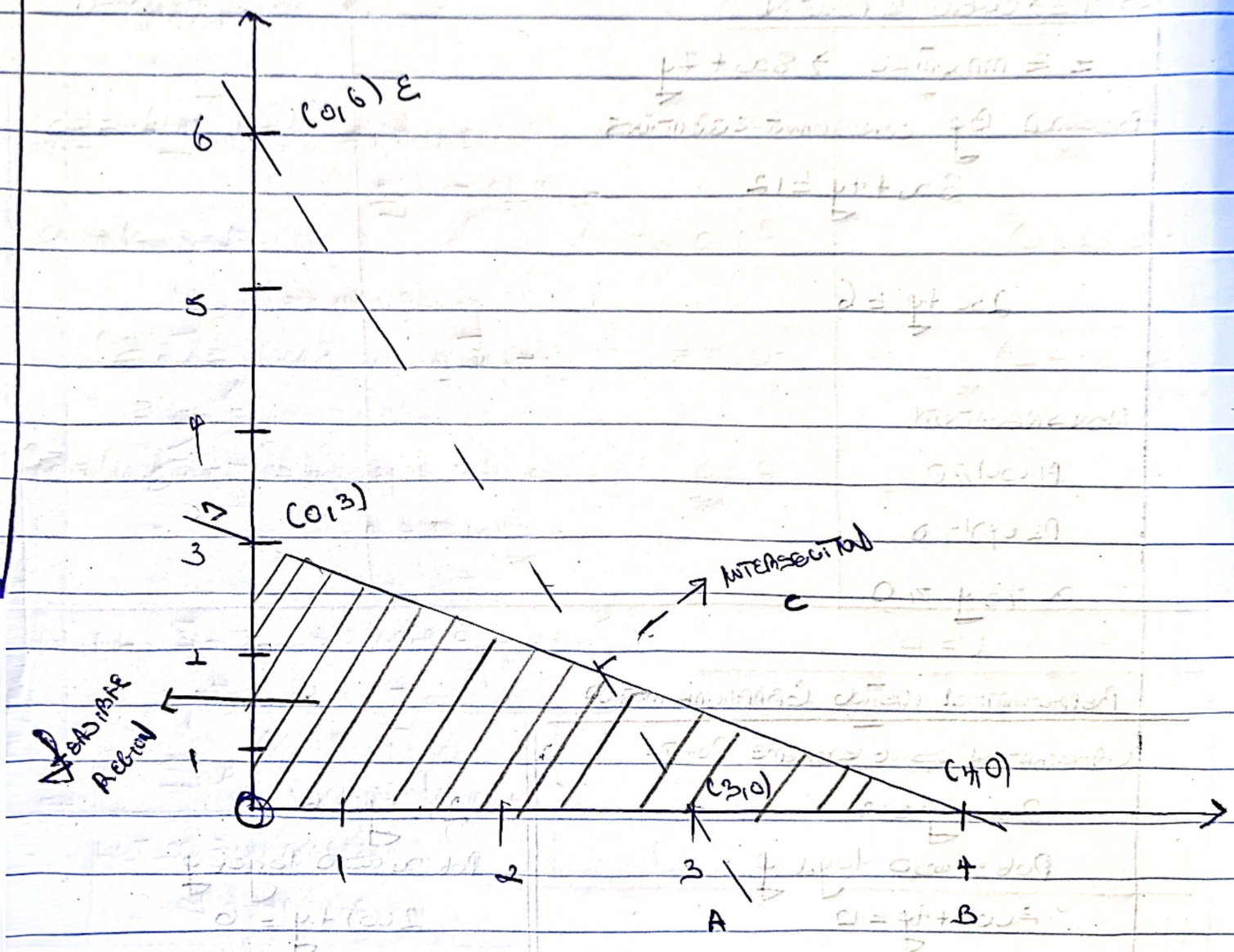
EXTREME POINTS

- (0,0)
- C (15,0)

FEASIBLE REGION

MAX OV $x = y$

$y = 6$



- ORDINATES

- C(0,0)
- C(3,0)

FEASIBLE REGION

$x = 0 \quad y = 0$

$2x + y = 16$

Plotting on graph

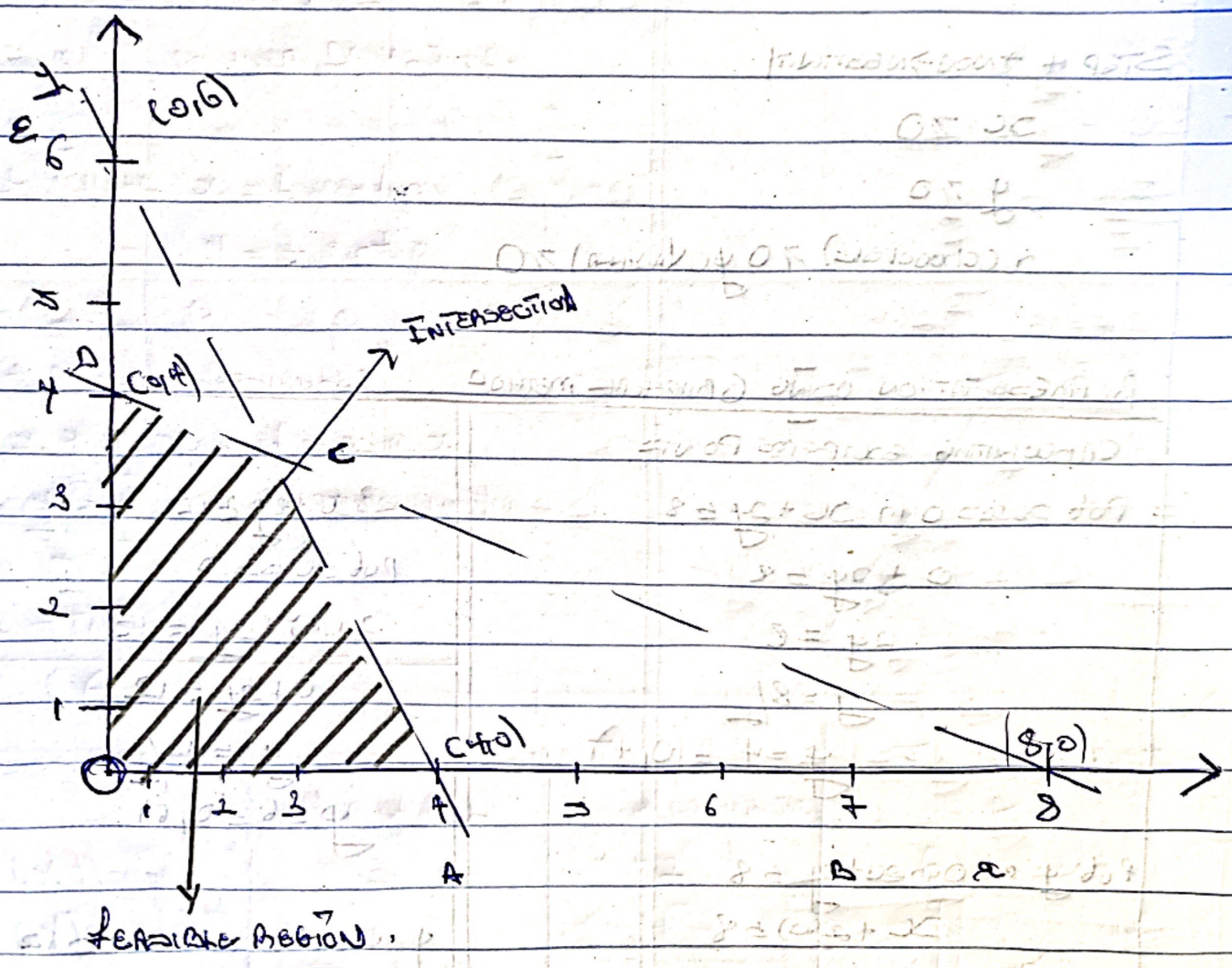
(8, 4)

(4, 6)

x y

max on x = 8

max on y = 6

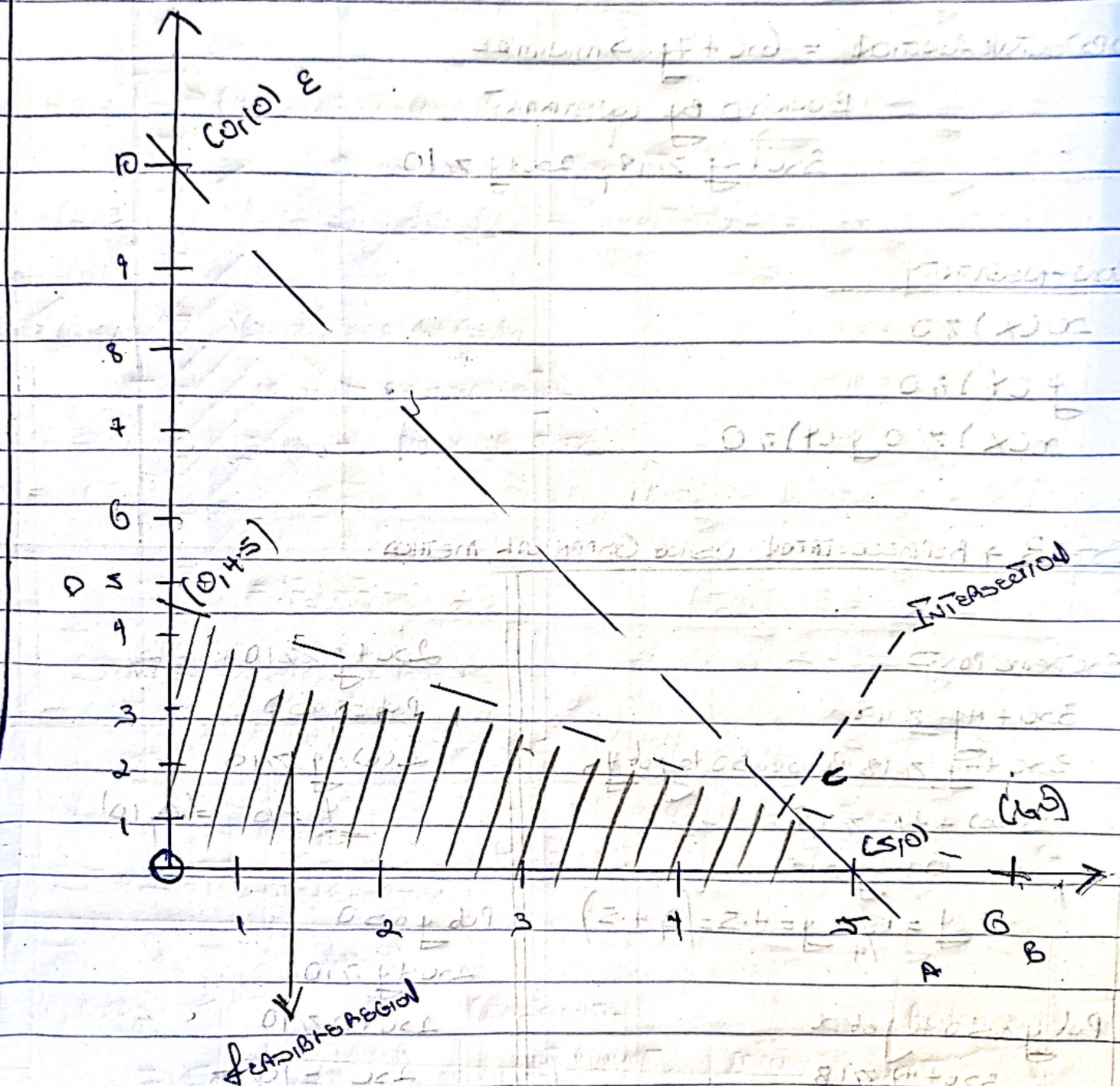


Max value on $x = 6$

$y = 10$

Scale on x-Axis → 1cm rep 1 unit

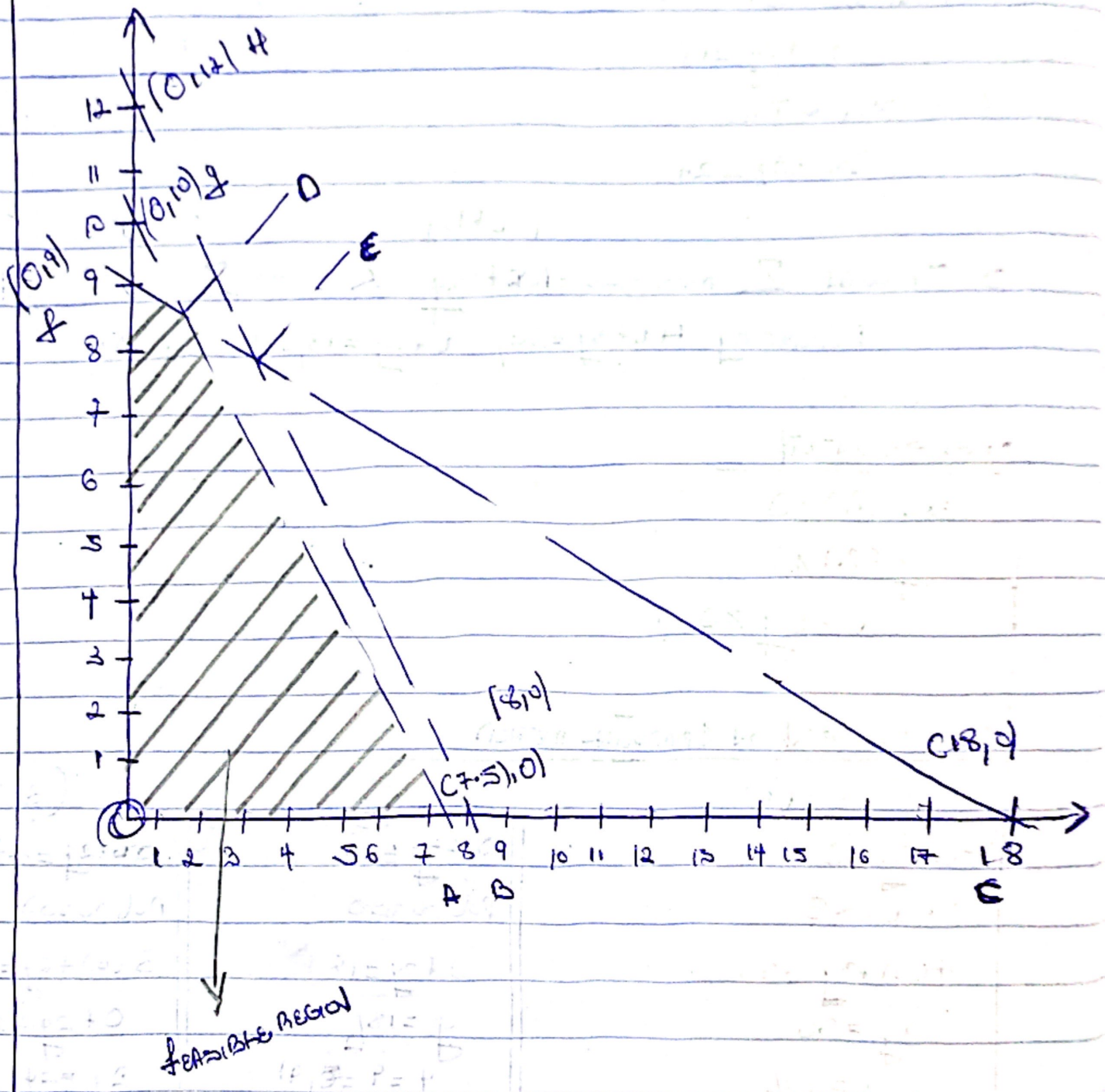
y Axis → 1cm rep 1 unit



O-ORDINATE	FEASIBLE REGION
O(0,0)	$2x + 4y \leq 18$

Scale on x 1 cm to rep 1 unit

on y → 1 cm to rep 1 unit



$(7.5, 10), (18, 9), (8, 12)$ → VALUE OF EXTREME POINT

CO-ORDINATES	FEASIBLE REGION	$x + 2y \leq 18$
$0, 0$	$4x + 3y \leq 30$	$0 + 2(0) \leq 18$
$A(7.5, 0)$		

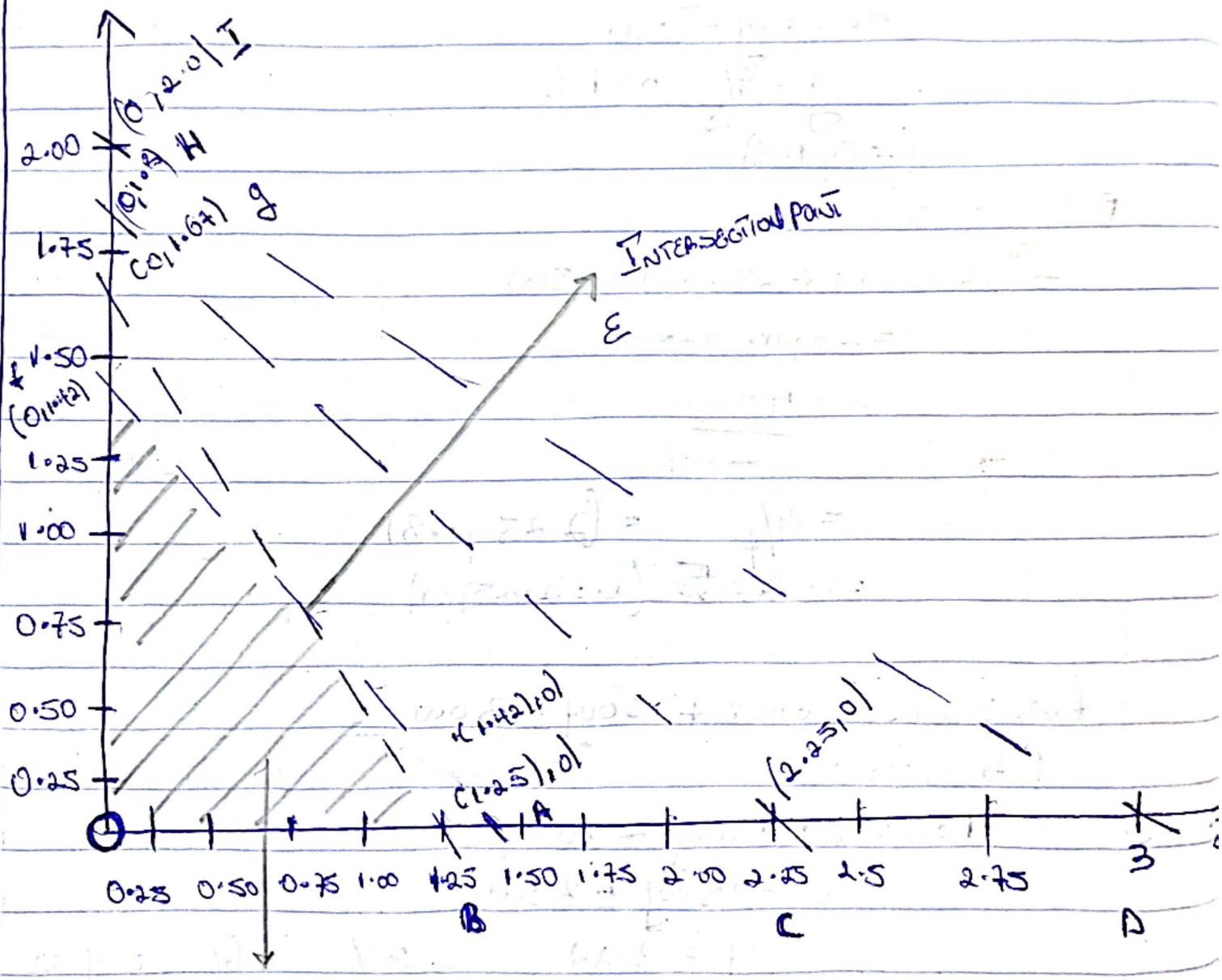
1000

$x = 3$

So $x = 3$, $y = 2$

VALUES ARE	1.25, 1.67
	2.25, 1.8
	3, 2
	1.42, 1.42
	x, y

1 cm to rep
SCALE ON $x \rightarrow$ AXIS 0.25 units
y 1 cm to rep 0.25 units



FEASIBLE REGION ON GRAPH

x

SCALE on x → 1cm to rep 2 units

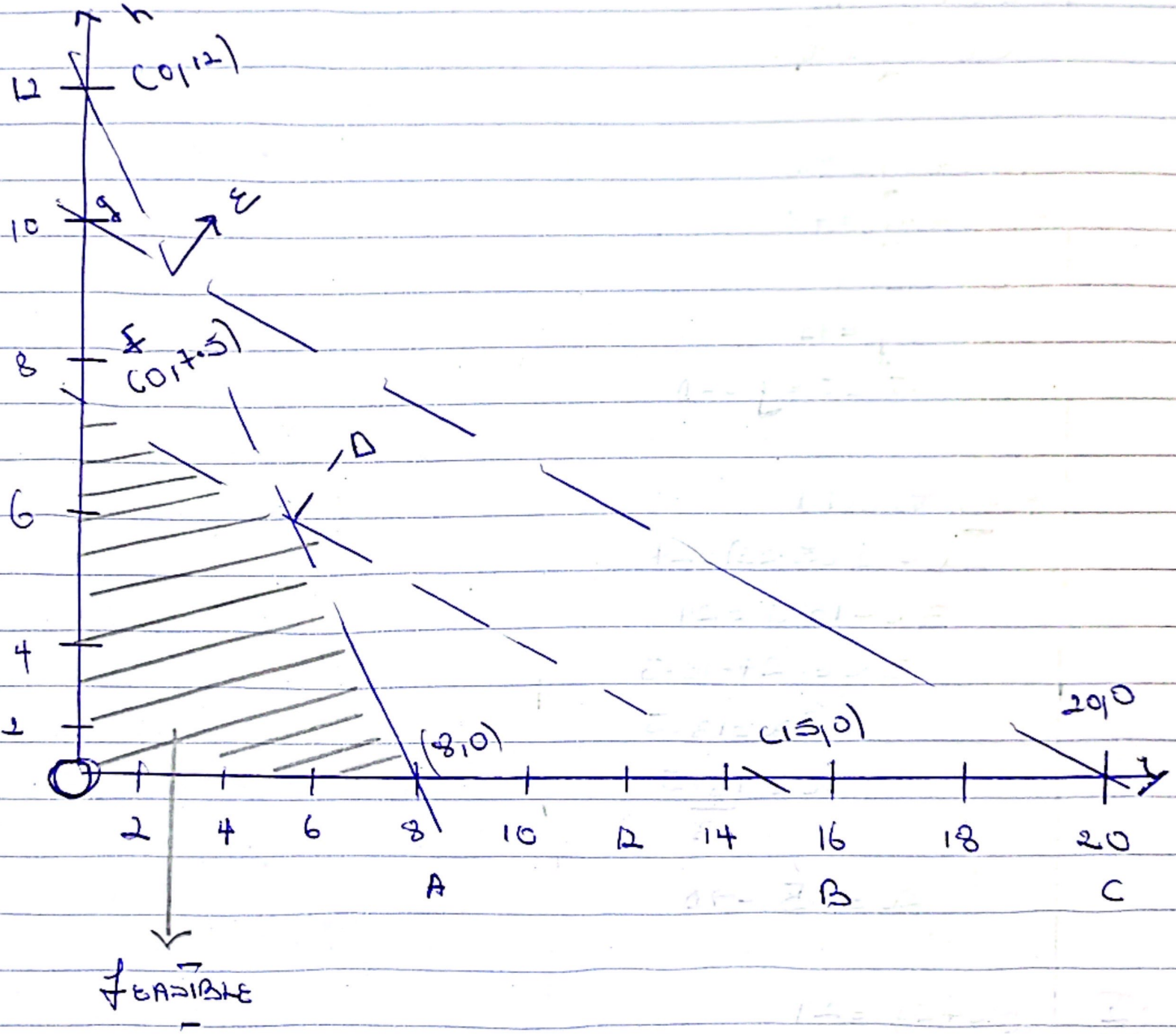
y → 1cm to rep 2 units

EXTREME POINTS

15, 7.5 → $2x+4y \leq 30$

8, 12 → $3x+2y \leq 24$

20, 10 → $x+2y \leq 20$



CO-ORDINATES	FEASIBLE REGION
0, 0	h (0, 12)
A (8, 0)	$2x+4y \leq 30$ $3x+2y \leq 24$
B (15, 0)	0 to ≤ 30 $0 \leq 24$