CHAPTER: LINEAR INEQUALITIES

$$\frac{eg}{c} = 2 \leq x \leq 5 \quad ; \quad x \in [2,5]$$

$$(2) 2 < \chi < 5 ; \gamma \in (2, r)$$

$$(3) -2 \leq \times \times 5 \quad ; \quad \pi \in [-2,5)$$

(3) 
$$\gamma < -2$$
;  $\gamma \in (-\omega, -2)$ 

$$\begin{cases} \frac{1}{2} & \frac{80 \text{ M}}{2} \\ \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{$$

$$\frac{344}{2} = \frac{1-2x}{4} - x$$

$$\frac{344}{2} < \frac{1-6x}{4}$$

$$12x + 4 < 2 - 12x$$

$$24x < -2$$

$$24x < -\frac{1}{2}$$

$$24x < -\frac{1}{2}$$

$$24x < -\frac{1}{2}$$

## fraghial Scruhan

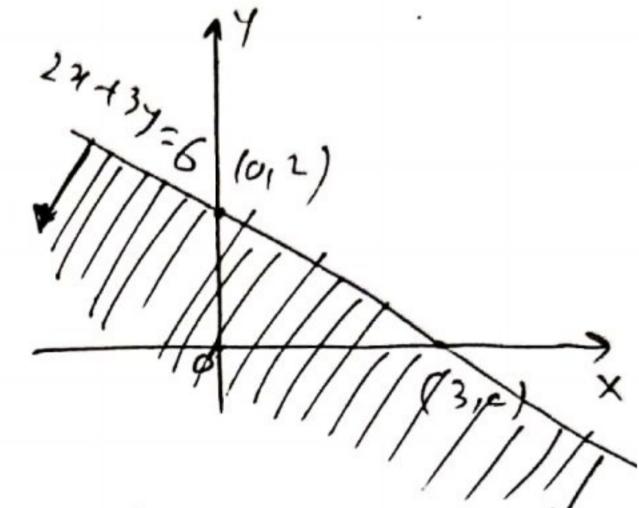
Consider 2x+37 = 6

pw x=0, y=2

144=0 ; 7=3

·· (012)

(3,0)



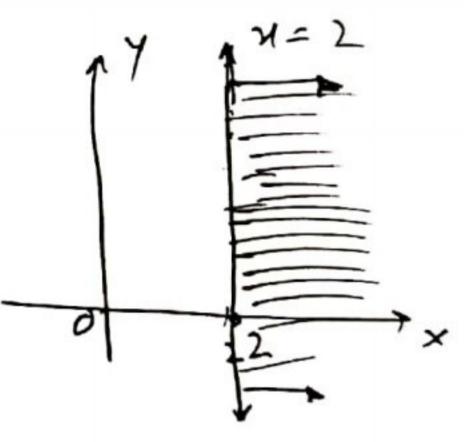
Solution put x=0, y=0

0 < 6 (Thue) Toward ku organ

(2) [XZ2]

Corrider N=2 /lene paralle to y-axis)

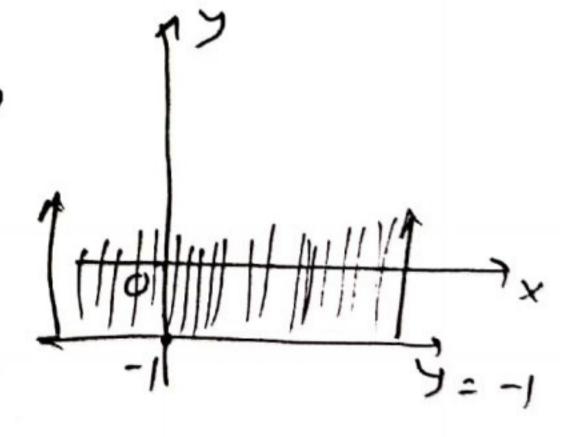
072 (falso) (away from the align Soluha



(3) | 4 > -1/

Corrider 7=-1 (len parale to

Solution 07-1 (Thu)
Towards the olign

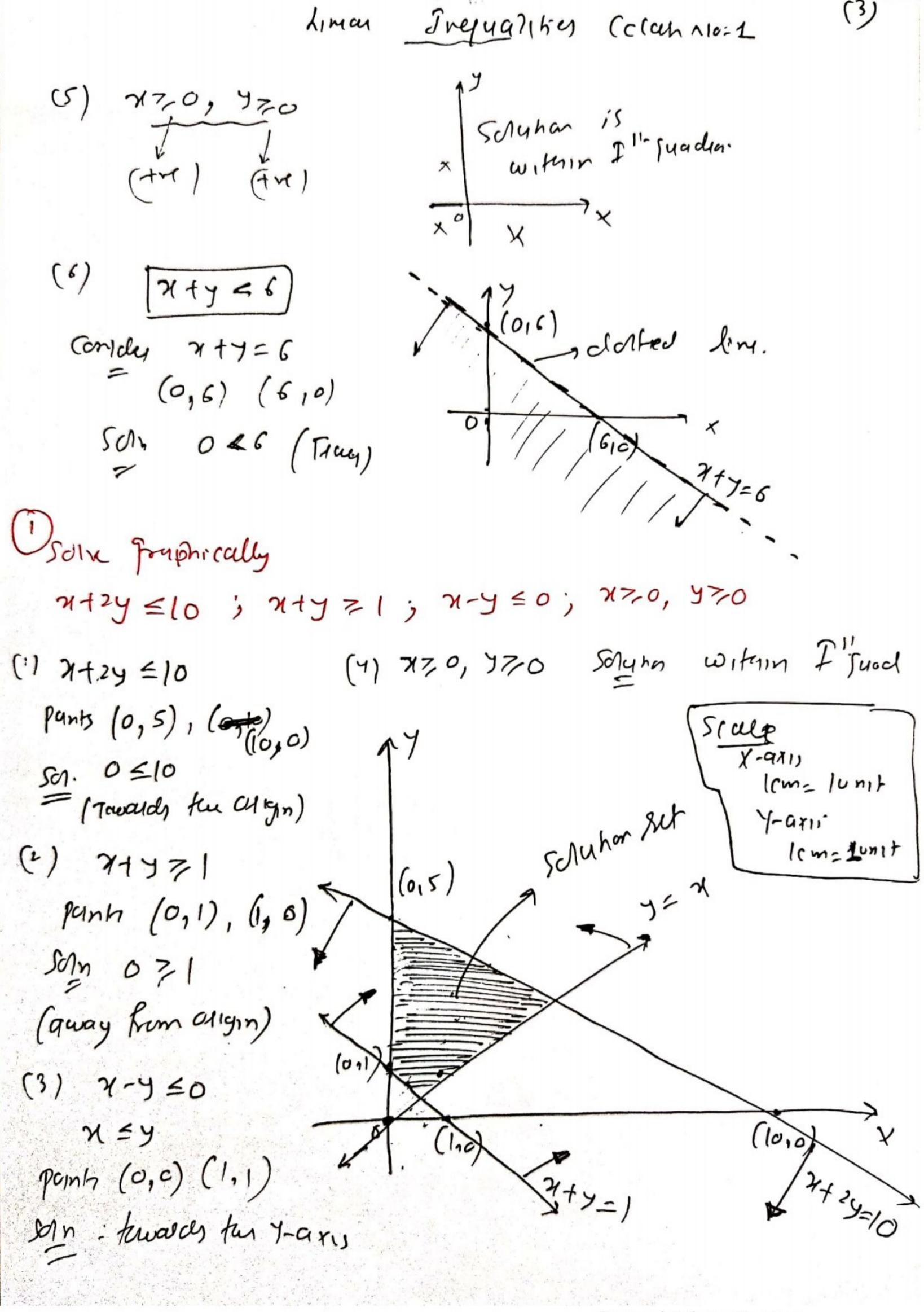


(Y) & YZX

Consider y=x ponh x=0, y=0

(010) (111) (010)

Solyhan & towards 4-axis



Lima (class No: 1) QMI. 2 - Solve graphically X-24 = 3; 3x+4y = 12; 4=1, X=4; X=0 (1)  $21-2y \le 3$  (2)  $31+4y \ge 12$  (3)  $4 \ge 1$  panh  $(0, -\frac{3}{2})$  (3)  $4 \ge 1$  line paully  $(0, -\frac{3}{2})$  (4,0)  $(0, -\frac{3}{2})$  (5)  $(0, -\frac{3}{2})$  (5)  $(0, -\frac{3}{2})$  (5)  $(0, -\frac{3}{2})$  (6)  $(0, -\frac{3}{2})$  (6)  $(0, -\frac{3}{2})$  (6)  $(0, -\frac{3}{2})$  (7)  $(0, -\frac{3}{2})$  (8)  $(0, -\frac{3}{2})$  (9)  $(0, -\frac{3}{2})$  (9)  $(0, -\frac{3}{2})$  (1)  $(0, -\frac{3}{2})$  (1)  $(0, -\frac{3}{2})$  (1)  $(0, -\frac{3}{2})$  (1)  $(0, -\frac{3}{2})$  (2)  $(0, -\frac{3}{2})$  (3)  $(0, -\frac{3}{2})$  (4)  $(0, -\frac{3}{2})$  (5)  $(0, -\frac{3}{2})$  (6)  $(0, -\frac{3}{2})$  (6)  $(0, -\frac{3}{2})$  (6)  $(0, -\frac{3}{2})$  (7)  $(0, -\frac{3}{2})$  (8)  $(0, -\frac{3}{2})$  (8)  $(0, -\frac{3}{2})$  (9)  $(0, -\frac{3}{2}$ Son 071 (41 XZY (0,0)((,1) Som & furance X-axis Sol your Set

NORKSHEET NO: 1 (21NEAR ESUALITIES)

Schrigraphically (On 1 to 7)

0:1 3x+2y =150; x+4y = 80 , x =15; x =0, y=0

ONE > YX+3Y < 60; Y=2X; X=3; X,470

QN3 + 2x+y=4; x+y ≤3; 2x-3y ≤6

Ones > 7+44 = 4; y = 3; x = 3; x + 54 = 4; 6x+24 = 8; x=0, y=0

Qn.6 + 2x+3y > 6; Yx+6y ≤ 24; -3x+2y ≤ 3, X-2y ≤ 2; X>0, Y>0, X>y

 $\frac{Q_{n-7}}{Z}$   $2x+3y \ge 3$ ;  $3x+4y \le 18$ ;  $-7x+4y \le 14$ ;  $x-6y \le 3$ ;  $x \ge 0$ ,  $y \ge 0$ 

Solve the Injugathes, and show solution on number line

 $\frac{0^{18}}{3} - 2 \leq \frac{3x-1}{4} + 1$ 

 $\frac{6n9}{2}$   $\frac{2(x-1)}{5} \leq \frac{3(2+x)}{7}$ 

 $0 \times 10$   $(2 \times 1)$  =  $(3 \times -2)$  -(2 - 2)