$$L = (2x_1 - x_2)$$

$$+ H_1(1-x_1-x_2) + H_2(2x_1 + 3x_2-10)$$

$$+ H_2(2-5x_1-2x_2)$$

$$+ H_3(7x_2-2x_1-8)$$

91: 
$$2x_1+3x_2-10 \le 6$$
  
92:  $5x_1+2x_2-2>0$   
 $2-5x_1-2x_2 \le 0$   
93:  $7x_2-2x_1-8 \le 0$ 

) = 1	201	x 2	af = l	$\frac{\partial F}{\partial x_2} = -1$
objective	+		ar = 1	dre
81	+	+		Į.
92	<u> </u>		5	
3	-	+		
INACTIVE ACTIV	E ACTIVE	RULEI	ULE 2	RULE 3

(ase2) g2 91 93

91

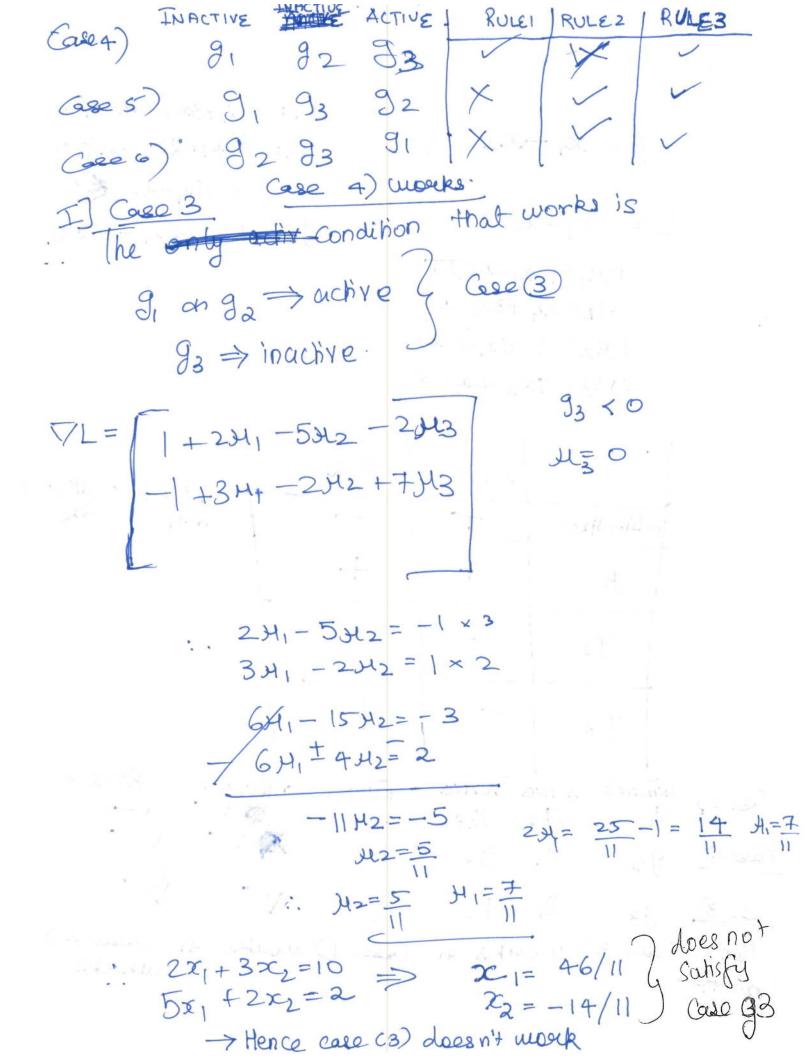
(<u>Gee 3</u>) 93 21 92

Henre Gee 3) works to Gee D works to Gee 2

Pouce the south

92

D was a gette



To Case 1) 31 is inactive

$$2-5x_{1}-2x_{2}=0$$

$$5x_{1}+2x_{2}=2\times 3$$

$$7x_{2}-2x_{1}-8=0$$

$$|0x_{1}+4x_{2}=4$$

$$-|0x_{1}+35x_{2}=40$$

$$\frac{10x_1 + 35x_2 = 40}{39x_2 = 44}$$

$$52_1 = 2 - \frac{38}{39} = \frac{-10}{39}$$

$$\chi_1 = -\frac{2}{39}$$

III (ase 2) g a is inactive

$$2x_1 + 3x_2 = 10$$
  
 $4x_2 - 2x_1 = 8$ 

$$10 \times 2 = 18$$
 $72 = \frac{18}{10}$ 

Checki's 92

$$\frac{1}{2} - \frac{18}{5} < 0$$

Hence Gase @ works

$$22_1 = 10 - \frac{54}{10} = \frac{46}{10}$$

9, + 92 wer inactive J3 is active.

$$7x_2-2x_1=8$$
Cannot determine

$$\chi_1 = \frac{7}{39} \qquad \chi_2 = \frac{44}{39} \quad \mu_2 = \frac{5}{39} \quad \mu_3 = \frac{7}{39}$$

$$L = -\frac{2}{39} + \frac{44}{39} + \frac{5}{39} \left(2 - 5z_1 - 2x_2\right)$$

$$+ 7 \left(7x_2 - 2z_1\right)$$

@ Gee 3 
$$\chi_1 = -\frac{1}{4}$$
  $\chi_2 = \frac{1}{4}$   $\chi_3 = \frac{1}{4}$ 

$$x_1 = -\frac{2}{39}$$
 on  $x_2 = \frac{49}{39}$   
or value is  $-\frac{46}{39}$ 

+ 7 (7)62-22,-8)

continued of the first have