Brolelan -1 2 = [2(x,+1) - M3 + M, ] = 0 = 100 = 2-430 =0 05 2+55-51x-=10  $\frac{5.42 - 3.43 = 0}{5.42 - 3.43 = 0}$   $\frac{3h_2}{02}$   $\frac{3h_2}{02}$ Herre it is globel minimum. Errolelem-2

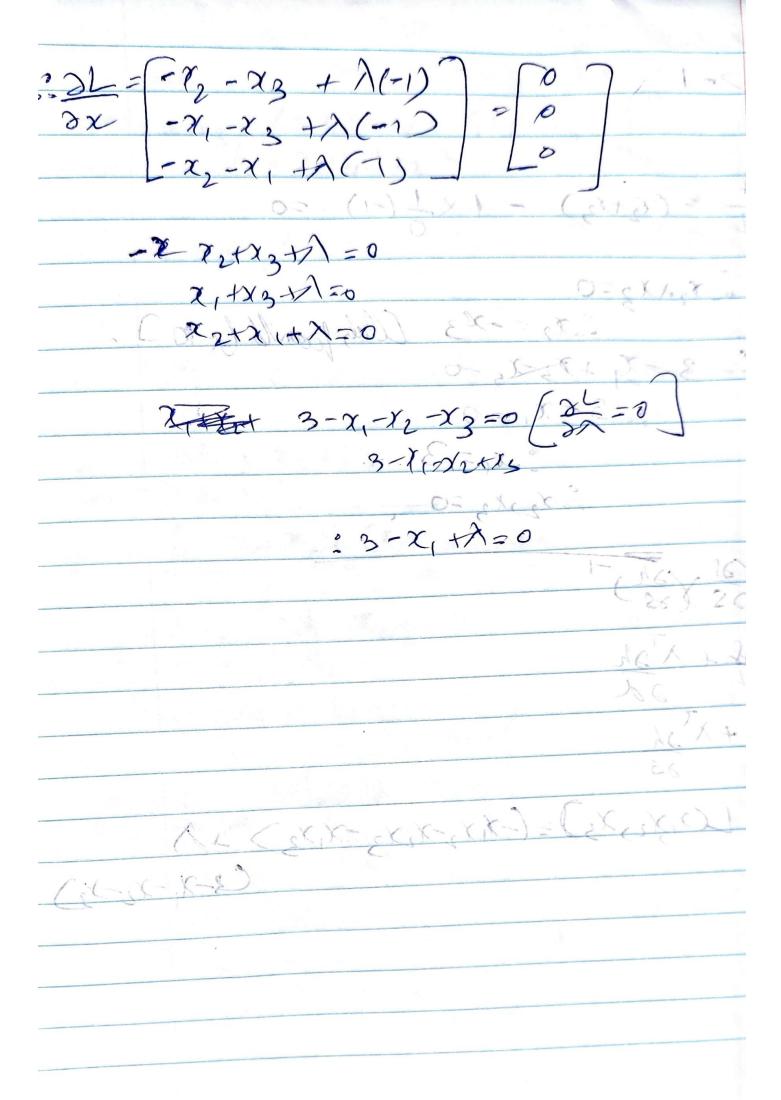
Toking transform points

[-1]+U,[-3 (1-36)] + U2 (6)-(0)

[-1]-(0) [-1+11,-301-85][0](1-)-S-166  $= -1 + 4 + 3 + 3 \times 2 = 0$   $= -1 + 4 + 3 \times 2 = 0$   $= 4 + 3 \times 2 = 0$ 

5 Brollen mox  $x_1, x_2, x_3 = 6 = x_1 x_2 + x_2 x_3 + x_1 x_3$   $h = x_1 + x_2 + x_3 - 3 = 0$ 3-4-8=0 8d=x, dbzx2+x2 ... min x, xxx = -7, x 2-x, x 3- x, x, h=3-X,-12-X3=0 28 = 26 - (26) (2h) 2h 2f = 2t = x2+x3 d- 8221 2f = 2f (x+x3) = 1 28 2x2x3 823 3) = 3 (7<sub>2</sub>+7<sub>1</sub>) = o. It al. in a lost ser  $\frac{2h}{2h} = \frac{3h}{2x^{3}} = \frac{3h}{2h} \left( \frac{1}{2} \right) = 0$ 34 = 3h (-1) = 0

= (x2+13) istz = -x3 Conf front ( 50) 3 = 475 25 =0 - xx=368 ~ x23x3 =0 : L(x,x2,x3)=(-x,x,-x,x3-x,x2) =1)



m bolelem-4 mox 2, 372 F6 = 2x, +bx2 min  $\alpha_1 \alpha_2 - l = -2\alpha_1 - b\alpha_2$  $g_1 = -x_1^2 - x_2^2 + 5 \ge 0$ On =- 3 'x2-x+2 ≥0 2x6

the close would lion is contratility as LHS + RHS o points (0,0) . Home connect scaled using XXX contiles	t Ro
horno (0,0) Home connect solve using XXX contilio	n G
(1) (1) (1) (1) (1) (1)	***
Brolden-5	
2(X2) x3/= x1+x2+x3/-1=0	,
9 25	7
$h_2 = \chi_1 + \chi_2 - \chi_3 = 0$	e e
d=2,	
$8=x_2,x_3$ $2l=2l-2l/2h_1+h$	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
m=2	
$\frac{\partial f}{\partial d} = 2x_1 + \frac{\partial f}{\partial x_2} = \frac{\partial f}{\partial x_2} = \frac{\partial f}{\partial x_3} = \frac{\partial f}{$	<u> 2 111)</u>
8 (2) 20	91
8x22x2 8x2	V
[ = 0	
160 833 ( / 19 10)	(3)
$-\frac{\lambda}{2} - \frac{\lambda}{2} - \frac{\lambda}{2} = 0$	
ds dada dx	
8 82h 3h C-1)=0 Sh = 0	
2x22x2 2x	

enderlien is remodelling as 1443 + 1243 & 5. 2 22 - (0x1) (1) ED 2X=1/2 0=1-5x7-17-1x = 1-1x = The is converdoes  $3d = 2x, -\left(0x\right)\left(\frac{1}{2}x\right) = 0$ = 2x, -1/2x, 6=0/6 /6 - 16= 16 816 = 3/2x, =0  $\frac{-2}{2} = \frac{2}{3}$   $0 = (3xs) \frac{1}{6} = \frac{2}{6} = \frac{1}{6} = \frac{1}{6}$   $0 = (3xs) \frac{1}{6} = \frac{2}{6} = \frac{1}{6} = \frac{1}{6}$   $0 = (3xs) \frac{1}{6} = \frac{2}{6} = \frac{1}{6} = \frac{1}{6}$ and Searchi-600) = 60k- A21 35k+X ((24) (34) (34) (35) (C2) = b(de, Sk) = 2 + (SL) (36)

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