MAE-598 Design Offinization

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(122455553)

Honework-2

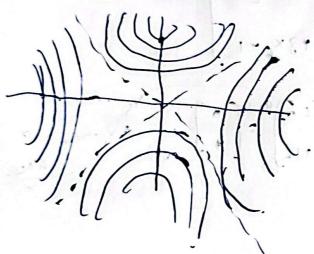
paint,
$$S = \begin{bmatrix} \frac{3+}{100} \\ \frac{11}{100} \end{bmatrix} = \begin{bmatrix} -4 \\ -4 \\ -4 \\ -4 \end{bmatrix}$$

m,

Indethite eiges value so, saddle Paul on sit.

on paylor evantity

بناج علم الا



It can be both yes

$$\nabla f_1 = \int \frac{\partial f}{\partial r_2}$$

$$= \int \frac{2r_1 + 2}{2x_2}$$

$$\frac{2r_2}{2x_3 - 2}$$

objection is conver

combined or x, +1x,+3x, = 1 = 1 Hyles Place whilh is contra so The Problem 1) conver.

TO convert to unany pain from

convey prot

So, sol. will be on In.

$$= -15$$

Hillflare or a conver sed -

a = ({ u } y = c

contan him regnet ion x q y by t

fH) = { x + 11-17}

no, at stel = at (14+(1-1))

= t(a! n) + (1-6) (a 12)

m. azun = Ect (1-til [:'a*x=(,atj=1)

at sitel= the toke is

autitle) = c -> Hyper fano.

est x=115 a construct because it contain all the largest Boining any 2 loin'ts willing it.

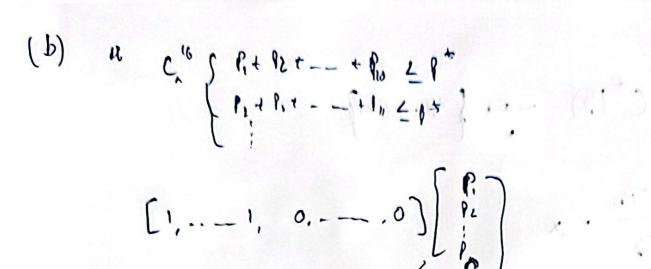
(Trapal A

$$\frac{3h}{3h} = \frac{dh}{dl} = \frac{\partial laln}{\partial l} = h.a$$

$$\frac{\partial^2 h}{\partial \rho^2} = \frac{\partial^2 h}{\partial \rho^2} - \frac{\delta(a T \rho)^2}{\delta \rho} a^{-1} = h a a T$$

n (I, IE)

sive 4 [I, 2:1) 13 a converse/ 1/ail 1/11 is also a Conver let



frie constraint so, strictly coupe so, which sol.

2 forts P, Pe but no most (man 1 can be on.

The person is not a convented Print Print

so may (01) may not have unique sal.) not a par segen.

$$\frac{\partial c^*(5)}{\partial s} = x$$

50,

((9) 15 a luca juntes wil to y

so, c=(1) is a conversed wit to y