Kop Quiz 9-22068 20352 - Juan Maxwell Tanaya

la. f(x,y) = x6+y3+6x-	12y+7
fx (x,y)= 6x5+6 fy (x,y)= 3y2-12	364x5) = 12 -12x5 = 12 x5 = 6-
$77f = \bar{0}^{2}$	x5=6-

y=72	2(x)	(-1,-2)
fxx (x,y) = 30x4	30	30
Fay (x, y) = 64	Dr. 15	24-12
fry (x,y) = 0	D= 7260	0 0 = 920 -360

Forena fxx (-1,2) = fxx (-1,-2) > 0 dan D>0, maka titik (-1,2) dan (-1,-1) lokal minimum torena fxx(-1,-2)>0 dan DCO, maka titik (-1,-2) lokal maksimum

$$20. f(x, y, z) = -2x + 4y + 3z$$

$$f(x, y, z) = x^{2} + 1y^{2} - 3z$$

$$f_{x}(x, y, z) = -2 | f_{x}(x, y, z) = 2x$$

$$f_{y}(x, y, z) = 4 | f_{y}(x, y, z) = 4y$$

$$f_{z}(x, y, z) = 3 | f_{z}(x, y, z) = -3$$

$$\begin{pmatrix} -2 \\ 4 \\ 3 \end{pmatrix} = \lambda \begin{pmatrix} 2x \\ 4y \\ -3 \end{pmatrix}$$

$$-2 = 2 \times 1 \times 1 = 2 \times 1 \times 1 = 2 \times 1 \times 1 = 2 \times$$

g (x,4,2)=0

(x,4,2)=(1,-1,1)

x2+242-32=0

(2+2(-1)2-3z=0

3-32=0

-32=-3 2=1

fx(1,-1,1)=-2(1)+4(-1)+3(1) = -2-4+3

= -3

