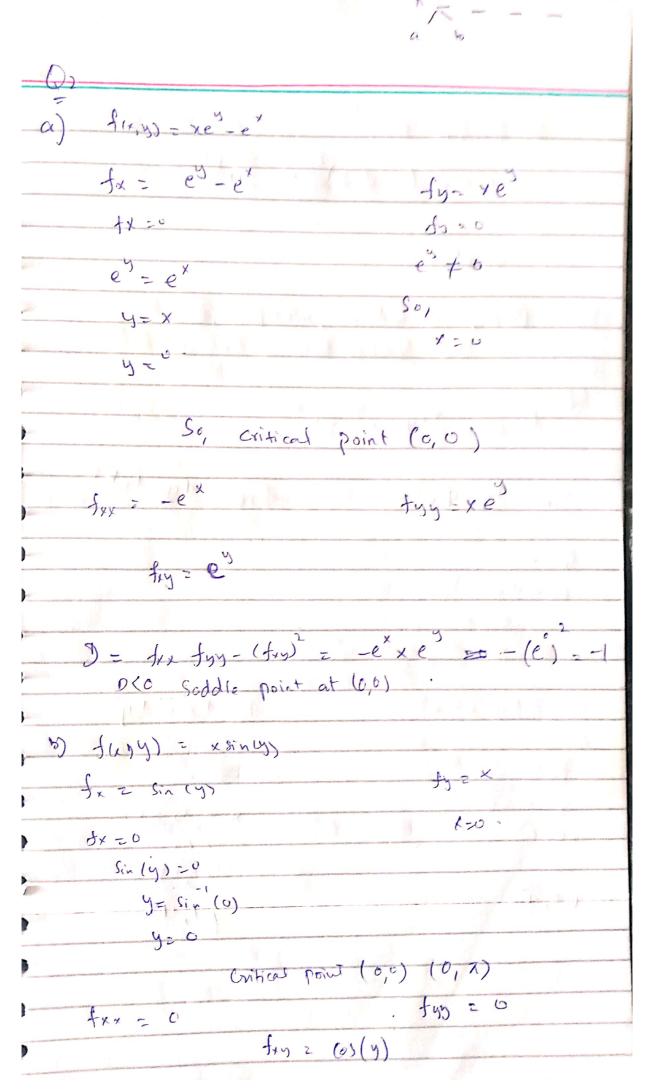


f(x,y)= e -(x2+y2+2x) 4 $e^{-(\chi^2+y^2+2x)}$ -(x2+y2+7x) = +0. So, -(2x+1)=0 for critical point. - fy 20 -(x2+y2+2x) (vitical point (-1,0)



D=
$$f_{xx}$$
- f_{yh} - f_{xy} ²

= 6. 0 - $(con(0))^2$ = (1)

2 -1.

Beth DXO, so Scholle point (beth foint)

Q+C)

Q+C)

Q+C

F(x,y) = f_{xy} - f_{xy} -

fyy= -12 y2 fre = -12x2 fry = 4 D= fragy - fran? D 2-12x2-12y2-16 Dz 14+x2y2-16 for P(0,0) D=-16. Saddle point for P(1,1) 92 14-4-16 fxx = -12 D 2 128 0>0 and fixe 6 so local Maxim for 81-1,-1) fxx: -12. 02144-16 Dro and fraco so local Maximum Extreme value for (1)1) f(1,1) = 4(1)(1) - 1 - 1 = 2f(a,-1) = 4 - 1 - 1 = 2