"QUIZ" for Lecture 10

NAME: (print!) Muttap 1/ Stornesky Section: ____

E-MAIL SCANNED .pdf OF COMPLETED QUIZ to DrZcalc3@gmail.com (Attachment: q10FirstLast.pdf) ASAP BUT NO LATER THAN Oct. 8, 8:00pm

1. Find the local maximum and minimum point(s), the local maximum and minimum values, and saddle point(s) of the function

$$f(x,y) = 12x^2 - 4x^3 + 6y^2 + 12xy$$

Fx=24x-12x2+124 fy = 124 + 12 × Fir=24-24x Fxy=12 fry= 12 X=0 Y=0 D=24.12.-12 D=144 R soldle Bint $C_{p} = (0, 0)$ no max ar min