Name:

Math 208, Section 3

Quiz number 5

Show all work. How you get your answer is just as important, if not more important, than the answer itself. If you think it, write it!

1: Find the critical points of the function

$$f(x, y) = x^2 - 6xy + 3y^3 - 5.$$

For each, determine if the point $(x, y, f(x, y))$ is a local max, local min, or saddle point.