Homework Set 7

DUE: OCT 21, 2019 (AT THE BEGINNING OF CLASS)

To be handed in:

Please write your solution to Problem 1 on a single sheet of paper!

1. Classify (into local maximum, local minimum, or saddle) the critical points of the following functions:

   a) $f(x,y) = x^3 + y^3 - 3xy + 4$

   b) $f(x,y) = x^3 - x^2 - y^2 + 3xy^2 + 1$

NOT to be handed in (but recommended for you to practice with):

2. Textbook (5th edition) Section 13.8, Exercises 7-11, 21-28