

QUIZ 9 - MATH 251

Monday, April 4

YOUR NAME: _____

George Voutsadakis

Read each problem **very carefully** before starting to solve it. Each problem is worth 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. Find the local extrema and the saddle points of the function

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