

MATH 231: Calculus of Several Variables
Section 1, 107 Ag Sc & Ind Bldg,
TR 9:05 AM - 9:55 AM

Homework 21: Due Thursday, November 21

1. Find the critical points for the following functions. Classify each point as a local max, local min, or saddle point.

(a) $f(x, y) = xy^2 + x^2$

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

(c) $f(x, y) = e^x \sin y$

(d) $f(x, y) = xy + x^2 + y^2$