

Warm-up Problems - February 8, 2006

1. Find all second order partials (what does this mean???) for the functions below.

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

(b) $g(x, y, z) = \ln(xy + z + 1)$

Lecture Problems

2. Using the function in question 1a, find all critical points, find D and classify the critical points as maximums, minimums or neither.