

Math 225: Calculus III

Quiz 6 *Mar. 5/7, 1996*

Name: _____

Section: _____

1. Find the local maxima, local minima, and saddle points of the function
 $f(x, y) = (x - 1)^4 + 2(x - 1)^2(y^2 - 1) + 2y^2$.

2. Find the maximum and minimum values of the function $f(x, y) = 3x - 2y$ subject to the constraint $4x^2 + y^2 = 4$.