

**Math 225: Calculus III**

**Quiz 6** *Mar. 7/9, 1995*

Name: \_\_\_\_\_

Section: \_\_\_\_\_

1. Find the local maxima, local minima, and saddle points of

$$f(x, y) = (2x^3 - 24x)(y - 1) + 3(y - 1)^2$$

2. Find the extreme values of  $f(x, y) = xy^2$  subject to the constraint  $x^2 + 2y + y^2 = 0$ .