

Math 225: Calculus III
Quiz 5 Feb. 28/Mar. 2, 1995

Name: _____
Section: _____

1. Find the direction in which the function $f(x, y) = xe^{xy-2}$ is increasing most rapidly at the point $(1, 2)$.

2. Find the critical points of the function $f(x, y) = x^2y - 2xy + \frac{1}{2}y^2$.