Math 225: Calculus III
Quiz 6 Mar. 4/6, 1997

Name:
Section:

1. Let $R$ be the triangular region bounded by the lines $y=2+x, y=2-x$, and $y=0$. Find the maximum and minimum values of $f(x, y)=$ $x^{2}-x y+x$ on $R$ and the points where they occur.
2. Find the extreme values of $f(x, y)=\sin (x y)$ subject to the constraint $x^{2}+y^{2}=1$.
