Math 225: Calculus III
Quiz 10 April 23/25, 1996

Name:
Section:

1. Let be the unit circle oriented counterclockwise and let be the outward unit normal vector to . Compute the flux integral $\int d s$ where $=e^{-y^{2}}(2 x y 1+\mathrm{J})$.
2. Determine the surface area of the portion of the paraboloid $y=x^{2}+z^{2}$ inside the cylinder $x^{2}+z^{2}=1$.
