Math 225	6: 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  $\int_{\cdot}^{\cdot} ds$  where  $=e^{-y^2}(2xy_1+{\tt j})$ .

2. Determine the surface area of the portion of the paraboloid  $y=x^2+z^2$  inside the cylinder  $x^2+z^2=1$ .