Math 225: Calculus III
Quiz 10 Dec. 3/8, 1992

Name:
Section:

1. Let be the boundary of the rectangle $0 \leq x \leq 2,0 \leq y \leq 1$, oriented counterclockwise. Use Green's Theorem to calculate the line integral $\int_{y}^{2} e^{x} d x+x e^{-y} d y$.
2. Find the surface area of the parabolic sheet $z=4-y^{2}$ between the planes $y=x$ and $x=0$ in the first octant.
