Math 225 : Quiz **Nov. 27, 1991**

Show your work and circle your final answer.

1. Let C be the curve parameterized by $(t) = t \subset +t^2 \supset$, $0 \leq t \leq 1$. Calculate the line integral $\int_C x\, ds$.

2. Evaluate the line integral

$$\int_C y\, dx + x\, dy + z\, dz$$

where C is the curve parameterized by

$$(t) = e^t \subset +e^{-t} \supset +t, \quad 0 \leq t \leq 1$$