

Math 240 Fall 2011
Quiz 3
TA: Matti Åstrand

Name: _____
Recitation: _____

Show all work clearly and in order, and box your final answers. You have 10 minutes to take this quiz.

1. (5 points) Evaluate $\int_C ydx - xdy$, where C is given by $x = y^2 + 1$ from $(1, 0)$ to $(2, 1)$.

2. (10 points) Evaluate the following line integral, where C is the straight line from $(1, 0, 1)$ to $(2, \frac{\pi}{2}, 2)$.

$$\int_C -zdx - e^z \sin(y)dy + (e^z \cos(y) - x)dz$$

(Hint: it's easier than it may look.)