NAME: (print!) Section:

E-MAIL SCANNED .pdf OF COMPLETED QUIZ to DrZcalc3@gmail.com (Attachment: q13FirstLast.pdf) ASAP BUT NO LATER THAN Oct. 22, 8:00pm

1. Change the order of integration in

 $\int_{1}^{4} \int_{0}^{\ln y} f(x,y) \, dx \, dy \quad .$ Siny Xdy $\frac{5^{\prime\prime}_{2}\ln\gamma}{=\gamma\ln\gamma-\gamma/1}^{4}$ = 2.545

2. Evaluate

$$\int_0^2 \int_{y/2}^1 \frac{1}{(x^2+1)^2} \, dx \, dy$$

,

by inverting the order of integration and evaluating the new iterated integral.

 $\frac{1}{(x^2+1)^2} = .5 + an^{-2}(X) + \frac{.5x}{x^2+1}$ =.6423 - .5tan2(.5y)+3+4 -122391