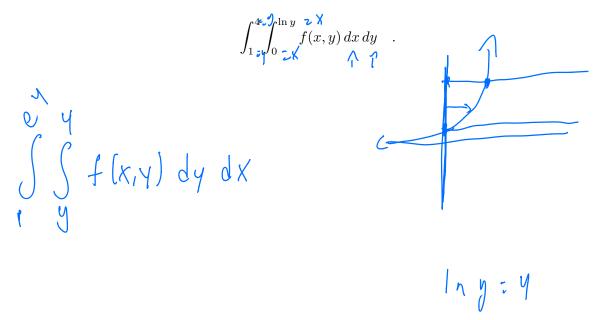
"QUIZ" for Lecture 13

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Section: 22

## 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



**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.

$$\int \int \int \frac{1}{x^{2}+1} \, dy \, dx = \int \frac{1}{x^{2}+1} \, dy = \frac{2x}{x^{2}+1}$$

$$\int \frac{1}{y^{2}} \frac{2x}{x^{2}+1} \, dx = \int \frac{1}{y^{2}} \frac{$$