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"QUIZ" for Lecture 13

	T. 0	D = 11	1	24
NAME: (print!)	Soe	Ball	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

$$\int_{Y=1}^{Y=4} \int_{X=0}^{x=\ln(y)} f(x_1 y) dx dy$$

$$\int_{Y=1}^{4} \int_{X=0}^{my} f(x,y) dx dy$$

$$\int_{Y=0}^{4} \int_{X=0}^{my} f(x,y) dx dy$$

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

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

$$\int_{0}^{2} \int_{y/a}^{1} \frac{1}{(x^{2}+1)^{2}} dxdy \qquad \int_{0}^{2} = \frac{\xi(x/y)}{2} \int_{0}^{2} \frac{1}{(x^{2}+1)^{2}} dydx = \int_{0}^{2} \int_{0}^{2} \frac{1}{(x^{2}+1)^{2}} dy$$

$$\chi: 0... \int_{0}^{2} \int_{0}^{2} \frac{1}{(x^{2}+1)^{2}} dydx = \frac{2x}{(x^{2}+1)^{2}}$$

$$\int_{0}^{\infty} \frac{2 dx}{(x^{2}+1)^{2}} dx = x^{2}+1 = x^{2}+$$