Quiz 4, Spring, 2013

The quiz is worth 5 points. Remove EVERYTHING from your desk except this quiz and a pen or pencil. SHOW your work. Express your work in a neat and coherent manner.

Calculate $\iint_R \frac{1}{x+y} dx dy$, where R is the region bounded by x=0, y=0, x+y=1, x+y=4, by using the map T(u,v)=(u-uv,uv).

$$x + y = 1, x + y = 4, \text{ by using the }$$

$$(x,y) = (y - y - y - y)$$

$$So \quad x + y = u$$

$$Gad \quad y = v$$

$$Ady = 1 \quad \text{is sent -1o } u = 1$$

$$x + y = 4 \quad \text{is sent -1o } u = 1$$

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$$x$$

$$SS \underset{R}{ty} dxdy = SS \underset{q}{tou} dudv = the area n.7(P) = 3$$