## Quiz 7

Name:	

Let D be the square region with vertices at (0,1),(1,0),(-1,0),(0,-1).

1. Draw D and write the equations of four boundary lines of D.

2. Let u = x + y and v = x - y. Solve for x, y in terms of u, v.

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3. Find the Jacobian  $\frac{\partial(x,y)}{\partial(u,v)}$ .

4. Use this change of variable to evaluate the double integral  $\iint_D (x+y) dA$ .