

Name _____ Complex Analysis, Spring 2017, Quiz 4

1) Let C be the contour that consists of a square with corners 2 , $2i$, -2 , and $-2i$. Find the integral below and show your work. Seriously, show your work:

- Answer = 2 points.
- Illustration of C = 1 point.
- Illustration of other relevant stuff on your graph = 3 points
- Calculation of integrals = 2 points
- Stating any theorems you use = 2 points

$$\int_C \frac{1}{z-1} + \frac{1}{z+1} dz$$