

Math 302

Quiz 6

28/ 12/ 2011

Name:

ID #

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Problem 1. (4 pts) Given the positively oriented upper half circle centered at i with radius 2,

$$C : z = i + 2e^{it}, 0 \leq t \leq \pi.$$

Find $\int_C \bar{z} dz$.

Problem 2 (6pts)

Compute

$$\int_C \frac{\operatorname{Re} z}{z} dz,$$

where C is shown in the figure.