

Quiz #10

Monday, December 12 2016

Duration: 15 min
NAME:
Please write clearly and properly. Always explain your answers.

Problem	Grade
1	
2	
Total	

Problem 2 (\sim 6 points.).

In this exercise, we let C(0, r) denote a positively oriented parametrization of the circle with center 0 and radius r. Compute the following integrals. Carefully explain your computations.

(1)
$$\int_{C(0,\frac{1}{2})} \frac{(1+z+z^2) e^{1+iz}}{z-i} dz$$

(2) $\int_{C(0,2)} \frac{(1+z+z^2) e^{1+iz}}{z-i} dz$