

Math 305, Quiz 2
September 20, 2007

Name: _____

- (1) (5 pts) Suppose G is the set of all continuous functions $f: \mathbb{R} \rightarrow \mathbb{R}$ such that $\int_0^1 f(x) dx = 1$. Determine whether G is a group under the usual multiplication of real-valued functions.

- (2) (5 pts) Suppose that G is a group where every element is its own inverse. Prove that G is abelian.