Real Analysis qualifying review big list

Students at University of Michigan

Thursday 24th June, 2021

Contents

1   Uncategorized

Problem 1 (Date: September 2011, tags:). Let $f \in L_1([0, 1], dx)$. Find

$$\lim_{n \to \infty} \frac{1}{n} \int_0^1 \log \left(1 + e^{nf(x)} \right) \, dx.$$