

MA 536 Homework 12

due Wednesday, 4/23

- A. Let $f(x) = x^2$ on \mathbb{R} . Sketch the graph of a the simple function $s_2(x)$ as in the proof of Theorem 11.20.

- B. Prove **11.23 (c), (e)**.

- C. Prove that if f and g are Lebesgue integrable with respect to μ on E , then so is $f + g$. Do not use Theorems 11.28, 11.29 in your argument.

Chapter 11 Ex. **1, 2**.