

Problem Set 4
February 7, 2018.

1. Exercises 4.13–4.18.
2. (a) Show that every Vitali set $V \subset [0, 1]$ has positive Lebesgue outer measure.
(b) Prove that for every $\epsilon > 0$, there exists a Vitali set V_ϵ satisfying $0 < m^*(V_\epsilon) < \epsilon$.