

MA 544: Homework 1

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PROBLEM 1.1

Show that the boundary of any interval has outer measure zero.

Proof. Let $I := \prod_{i=1}^n [a_i, b_i]$ for $a_i, b_i \in \mathbb{R}$. ■

PROBLEM 1.2

Show that a set consisting of a single point has outer measure zero.

Proof.

