

TOPOLOGICAL MANIFOLDS || PROBLEM SHEET 1

Problem 1. An example of a locally n -Euclidean, paracompact space that is not Hausdorff.

Problem 2. An example of a locally n -Euclidean, Hausdorff space that is not paracompact.

Problem 3. Every compact topological manifold embeds in \mathbb{R}^N for some N .