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Introduction to Smooth Manifolds | John Lee | Springer
What Are Manifolds? 3 Fig. 1.3: Doughnut surface. The only higher-dimensional manifold that we can easily visualize is Euclidean 3-space (or parts of it). But it is not hard to construct subsets of higher-dimensional Euclidean spaces that might reasonably be called manifolds. First, any open subset of Rnis an n-manifold for obvious reasons. More interesting examples are obtained

Chapter 1 Introduction
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