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In topology, a branch of mathematics, a

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Topological manifold - Wikipedia

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Introduction to Smooth Manifolds | John  
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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  $\mathbb{R}^n$  is an  $n$ -manifold for obvious reasons. More interesting examples are obtained

## Chapter 1 Introduction

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