Topology

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Contents

Chapter 1

Topological Spaces.

Definition 1.1. A topology on a set X is a collection $\mathcal{T}$ of subsets of X such that

(T1) ϕ and X are in $\mathcal{T}$;

(T2) Any union of subsets in $\mathcal{T}$ is in $\mathcal{T}$;

(T3) The finite intersection of subsets in $\mathcal{T}$ is in $\mathcal{T}$.

This is the first chapter

Chapter 2

Continiuous functons.

Up to there is none.