

Topology

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Let X be a non-empty set. A collection τ of subsets of X is said to be a *topology* on X if

- (i) X and the empty set \emptyset belong to τ ,
- (ii) the union of any (finite or infinite) numbers of sets in τ belongs to τ , and
- (iii) the intersection of any two sets in τ belongs to τ

The pair (X, τ) is called a *topological space*.

References

- [1] <http://www.topologywithouttears.net/> Sidney A. Morris, *Topology without tears*, 2018.

Pawel Jan Piskorz (paweljs@gmail.com)