

# Topology Problems And Solutions

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Solutions - download.truyenyy.com Solution: (i) Let  $U \subseteq X$  be open. As  $X$  has the trivial topology, this means that  $U$  is either  $\emptyset$  or  $X$ . If  $U = \emptyset$ , then  $f^{-1}(U) = \emptyset$ , which is open.

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Solution To Problems On General Topology[MAT404 Continuous assessment] Photo Credit: Wikimedia.org This is a solution to problems on general topology(MAT404 C.A Test), the problems include construction of topologies from a given set, construction of topology from a given basis, proof of a compact topological space, and proof of a continuous topological function.

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Further Complex Variable Theory & General Topology Solutions to Problem Sheet 4 Jos e A. Canizo~ March 2013 Unless otherwise specified, the symbols  $X$ ,  $Y$  and  $Z$  represent topological spaces in the following exercises. Exercise 4.1. This exercise suggests a way to show that a quotient space is homeomorphic to some other space.

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## General Topology - Solutions to Problem Sheet 4

Solution: (i) Let  $U \subseteq X$  be open. As  $X$  has the trivial topology, this means that  $U$  is either  $\emptyset$  or  $X$ . If  $U = \emptyset$ , then  $f^{-1}(U) = \emptyset$ , which is open. If  $U = X$ , then  $f^{-1}(U) = Y$ , and  $Y$  is always open, as it is a member of any topology defined on  $Y$ . Thus, if  $U$  is any open set in  $X$ ,  $f^{-1}(U)$  is also an open set in  $Y$ . Hence,  $f$  is continuous. (ii) Let  $U$  be any open set in  $Y$ .

## Math 535: Topology Homework 1

4 TOPOLOGY: NOTES AND PROBLEMS Remark 2.7 : Note that the co-countable topology is finer than the co-finite topology. 3. Basis for a Topology Let  $X$  be a set. A basis  $B$  for a topology on  $X$  is a collection of subsets of  $X$  such that (1) For each  $x \in X$ ; there exists  $B \in B$  such that  $x \in B$ ; (2) If  $x \in B_1 \cap B_2$  for some  $B_1, B_2 \in B$  then there exists  $B_3 \in B$  such that  $x \in B_3 \subseteq B_1 \cap B_2$  ...

## TOPOLOGY: NOTES AND PROBLEMS

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if the status of the individual problems is uncertain. We have addressed this issue by arranging a running update on such status in each volume of the journal TOPOLOGY AND ITS APPLICATIONS. This will be useful only if the reader takes the trouble of informing one of the editors about solutions of problems posed in this book.

## **OPEN PROBLEMS IN TOPOLOGY - UvA**

This is an introductory course in algebraic topology. The course will cover the following main topics: introduction to homotopy theory, homology and cohomology of spaces. Problem sets. It is not mandatory to hand in the exercises (there is no testat). The exercise sheets can be handed in in the post box of Felix Hensel located in HG F 28.

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