

# Topology Problem Solutions

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Section 13: Problem 4 Solution Working problems is a crucial part of learning mathematics. No one can learn topology merely by poring over the definitions, theorems, and examples that are worked out in the text. One must work part of it out for oneself. To provide that opportunity is the purpose of the exercises. Can anyone suggest a collection of (solved) exercises in topology? Undergrad level, as a companion to Dugundji's Topology (although excellent it doesn't provide the solutions to the problems). Tha...Further Complex Variable Theory & General Topology Solutions to Problem Sheet 4 Jos e A. Canizo~ March 2013 Unless otherwise speci ed, 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.