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Algebraic Topology by Allen Hatcher

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MONROE HARRIS Van Kampen's

Theorem Problem 1. Suppose Gand Hare

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nontrivial groups. Suppose $x = g_1 h_1 \dots g_n h_n$ lies in the center of G/H , where $g_i \in G$ and $h_i \in H$. For any $g \in G$, we have $g g_1 h_1 \dots g_n h_n g^{-1} = g_1 h_1 \dots g_n h_n g^{-1} g_1^{-1} \dots h_1^{-1} g^{-1} g_1 = 1$. The only way for this to be true for all g is if $h_i = 1 \in H$ for all i .

Van Kampen's Theorem

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Allen Hatcher's Algebraic Topology, available for free download here. Our course will primarily use Chapters 0, 1, 2, and 3. Prerequisites. In addition to formal prerequisites, we will use a number of notions and concepts without much explanation.

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Math 215A: Algebraic Topology

Solutions to Homework # 2 Hatcher,
Chap. 0, Problem 16.1 Let $R := M_{n,1} \mathbb{R} =$
 $\{x = (x_k)_{k=1}^n \mid x_n = 0\}$, $N := \{x \in \mathbb{R}^n \mid x_n = 0\}$. We
define a topology on R by declaring a set
 $S \subseteq R$ closed if and only if, $\forall n \in \mathbb{N}$, the
intersection $S \cap R_n$ of S with the finite
dimensional subspace $R_n = \{x = (x_k)_{k=1}^n \mid x_k = 0, \dots, x_n = 0\}$

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$0; \delta_k > n$; is closed in the Euclidean topology of \mathbb{R}^n . For each $x \in \mathbb{R}^n$ set $j \sim x_j := \sum_{k=0}^{\infty} x_k^2$

*Solutions to Homework # 1 Hatcher,
Chap. 0, Problem 4.*

Solutions to Alan Hatcher's "Algebraic
Topology" Allen Hatcher's Algebraic

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Solutions available for free download here. Our course will primarily use Chapters 0, 1, 2, and 3. Prerequisites. In addition to formal prerequisites, we will use a number of notions and concepts without much explanation. Preface - Cornell University

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ALLEN HATCHER: ALGEBRAIC
TOPOLOGY MORTEN POULSEN All
references are to the 2002 printed edition.
Chapter 0 Ex. 0.2. Define $H: (\mathbb{R}^n \setminus \{0\}) \times I \rightarrow$
 $\mathbb{R}^n \setminus \{0\}$ by $H(x,t) = (1-t)x + t|x|x$, $x \in \mathbb{R}^n$
 $\setminus \{0\}$, $t \in I$. It is easily verified that H is a

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homotopy between the identity map and a retraction onto S^{n-1} , i.e. a deformation retraction. Ex. 0.3.

Allen Hatcher: Algebraic Topology

A downloadable textbook in algebraic topology. What's in the Book? To get an idea you can look at the Table of Contents

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Solutions and the Preface.. Printed Version: The book was published by Cambridge University Press in 2002 in both paperback and hardback editions, but only the paperback version is currently available (ISBN 0-521-79540-0). I have tried very hard to keep the price of the paperback ...

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*Algebraic Topology Book - Cornell
University*

By Lemma 1.15 (Hatcher), every loop in X based at x_0 is homotopic to a product of loops, where each loop is either contained in e or A . Since $n \geq 2$, a loop contained in e is nullhomotopic, so every loop in X is

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homotopic to a loop in A . Thus if $[f] \neq [f_0]$,
 $1(X; \pi_1(X; x_0))$, there there is a loop $f_0: I \rightarrow A$ such
that $[f_0] = [f]$. We have $f_0 \simeq f$, so $[f_0] = [f]$
 $[f_0] = [f_0] = [f]$

*Homework 3 MTH 869 Algebraic
Topology*

Algebraic Topology. This book, published

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Solutions in 2002, is a beginning graduate-level textbook on algebraic topology from a fairly classical point of view. To find out more or to download it in electronic form, follow this link to the download page.

*Allen Hatcher's Homepage - Cornell
University*

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Math 634: Algebraic Topology I, Fall
2015 Solutions to Homework #3 Exercises
from Hatcher: Chapter 1.2, Problems 4, 7,
8, 9, 14, 15, 21 (Y path-connected). 4. If X
is the union of n lines through the origin in
 \mathbb{R}^3 , then $\mathbb{R}^3 \setminus X$ admits a deformation
retraction to the complement of n points in
 S^2 , which is homeomorphic to the

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Solutions
complement of $n + 1$ points in \mathbb{R}^2 . This in turn admits a deformation retraction to a wedge of $n + 1$ circles, so ?

*Math 634: Algebraic Topology I, Fall
2015 Solutions to ...*

Allen Hatcher. In most major universities one of the three or four basic first-year

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graduate mathematics courses is algebraic topology. This introductory text is suitable for use in a course on the subject or for self-study, featuring broad coverage and a readable exposition, with many examples and exercises. The four main chapters present the basics: fundamental group and covering spaces, homology and

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Solutions cohomology, higher homotopy groups,
and homotopy theory generally.

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Algebraic Topology, Semester 1, 2015,
Zhou Zhang Weeks 1 to 13 Following
Chapters 0, 1 and 2 in "Algebraic

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"Topology" by Allen Hatcher Overview
Weeks 1-2: Chapter 0, Useful Geometric
Notions Weeks 2-7: Chapter 1,
Fundamental Group Weeks 7-13: Chapter
2, Homology Week 13: Wrap-up Before
We Start The struggle between intuitive
idea and rigorous ...

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Solving *Following Chapters 0, 1 and 2 in
Algebraic Topology by ...*

Text: We will mostly follow chapters 3 and 4 of Algebraic Topology by Allen Hatcher. The book is available for free online at the author's website. as well as in print. Grades: The grade will be based on homework assignments. Homework: A list

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of the homework problems will be kept on
this webpage.

Algebraic Topology 246A - Winter 2018
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Solutions; selected exercises from
Chapters 0, 2, and 3 . Totally
Indescribable; Totally Indescribable.
Projects. Math. @cemulate. Algebraic
Topology Allen Hatcher. Chapter 0 .
Exercise 16 The infinite sphere is
contractible Chapter 2 . Exercise 1.1
Exhibiting a Mobius strip a a quotient of a

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Algebraic Topology

Consider the homotopy $g_t = f \circ \tau_t : S^{n-1} \rightarrow B$.
Then we lift the homotopy g_t up to a
homotopy $\tilde{g}_t : S^{n-1} \rightarrow E$ by applying the
CHP. The homotopy \tilde{g}_t may be
considered as a map $\tilde{h} : D^n \rightarrow E$, where

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the disk D_n is covered by $(n+1)$ -spheres as it is shown, see Fig. 9.7 (b), and the map h on these spheres is given by \tilde{g} .

*NOTES ON THE COURSE "ALGEBRAIC
TOPOLOGY"*

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INTRODUCTION Most of this book is based on lectures to third-year undergraduate and postgraduate students. It aims to provide a thorough grounding in the more elementary parts of algebraic topology, although

ALGEBRAIC TOPOLOGY - School of

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Solutions

Topology - Discussion Homework 2

September 8, 2016 1-6 How many faces

does an n -simplex have? Solution: Let n

be an n -simplex. Since n has n

$+1$ vertices, there are $n+1$ 0 -faces of

n . Likewise, n has $n+1$ 1 -faces. In general,

we can say that the number of $(k-1)$ -faces

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Solutions
is $n+1$ k. So, we have $\sum_{k=1}^{n+1} k$ total
faces of n . 1-8 Triangulation of the Klein
Bottle. $a_0 = 2$ $a_1 = 0$ $a_2 = 3$ $a_3 = 5$ $a_4 = 6$ $a_5 = 3$

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