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~~LECTURE 02 Algebraic Topology~~

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MONROE HARRIS Van Kampen's

Theorem Problem 1. Suppose G and H are
nontrivial groups. Suppose $x = g_1 h_1 \dots g_n$

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nh lies in the center of G/H , where g
 $i \in G$ and $h \in H$. For any $g \in G$, $1 \in H$, we have
 $g g^{-1} h^{-1} \dots g^{-1} h^{-1} n g^{-1} h^{-1} n g^{-1} h^{-1} n \dots h^{-1} 1 g$
 $1^{-1} 1 = 1$. The only way for this to be true
for all g is if $h^{-1} = 1 \in H$ for all i .

~~Van Kampen's Theorem~~

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exercises. The Exercises: I have not
written up solutions to the exercises. The

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main reason for this is that the book is used as a textbook at a number of universities where the problem sets count for part of a student's grade.

~~Algebraic Topology Book - Cornell
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We may assume the polynomial is of the

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form $p(z) = z^n + a_1 z^{n-1} + \dots + a_n$. If $p(z)$ has no roots in \mathbb{C} , then for each real number $r \neq 0$ the formula $f_r(s) = p(re^{2\pi i s})/p(r)$ defines a loop in the unit circle $S^1 \subset \mathbb{C}$ based at 1. As r varies, f_r is a homotopy of loops based at 1.

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$f_1(x)$ and $G(x,1) = F(x,0) = f_0(x)$, i.e. a homotopy between f_1 and f_0 . Thus, the relation of homotopy among maps between two fixed spaces is reflexive, symmetric, and transitive, the latter by lemma 1, i.e. an equivalence relation. (c).

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Let $f, g: X \rightarrow Y$ be a homotopy equivalence with homotopy inverse g .

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Solutions to Homework # 2 Hatcher,

Chap. 0, Problem 16.1 Let $R := M_{n \times 1} R =$

$n \times n$ matrices $x = (x_k)_{k=1}^n$; $\mathcal{N} := \{x \in R : x_n = 0\}$; $\mathcal{N} \subset R$: We

define a topology on R by declaring a set

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S \subset \mathbb{R}^n closed if and only if, $\delta_n \neq 0$, the intersection S of with the finite dimensional subspace $\mathbb{R}^n = \{ (x_k)_{k=1}^n; x_k = 0; \delta_k > n \}$; is closed in the Euclidean topology of \mathbb{R}^n . For each $x \in \mathbb{R}^n$ set $d(x, S) := \inf_{y \in S} \|x - y\|$

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~~Chap. 0, Problem 4.~~

Algebraic Topology. This book, published 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.

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Solutions Exam algebraic topology 1,
1-23-2019. Always motivate your answers
and state the theorems/results you are
using. Unless stated otherwise all
homology is taken with integer coefficients.
Question 1 a. For a pair of spaces $(X; Y)$ de

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ne $Z = ((Y \times [0,1]) \cup X) \setminus \{(y,1) \mid y \in Y\}$ and $(y,0) \sim (y',0)$ for all $y, y' \in Y$. Show that for all $n \in \mathbb{N}$ we have $H_n(Z) = 0$.

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By Lemma 1.15 (Hatcher), every loop in X based at x_0 is homotopic to a product of

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loops, where each loop is either contained in e nor A . Since $n \geq 2$, a loop contained in e is nullhomotopic, so every loop in X is homotopic to a loop in A . Thus if $[f] \in \pi_1(X; x_0)$, there there is a loop $f_0: I \rightarrow A$ so that $[f_0] = [f]$. We have $f_0 \simeq f_0$, so $[f_0] = [f_0] = [f]$

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~~Homework 3 MTH 869 Algebraic Topology~~

Let $f \in \pi_1(X, x_0)$. Let $E = \text{Int}(e_n)$ and consider $f \in \pi_1(E)$. This is an open subset of $(0, 1)$, so it is the union of a possibly infinite collection of subsets of $(0, 1)$ of the form (a_i, b_i) . Let $x \in E$ and let U be an open ball around x in e_n .

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~~Exercise 1.1.18 in Hatcher's Algebraic
Topology ...~~

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ALLEN HATCHER: ALGEBRAIC
TOPOLOGY MORTEN POULSEN All
references are to the 2002 printed edition
Chapter 0 Ex 02 Define $H: (\mathbb{R}^n \setminus \{0\}) \times I \rightarrow \mathbb{R}^n$

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$\mathbb{R}^n \setminus \{0\}$ by $H(x,t) = (1-t)x + t(1/x)$ Sketches of solutions to selected exercises Hatcher 2116 a) This could be done directly but let's use the exact sequence First,

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As we shall show in Theorem 2.44, the Euler characteristic of a cell complex

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depends only on its homotopy type, so the fact that the house with two rooms has the homotopy type of a point implies that its Euler characteristic must be 1, no matter how it is represented as a cell complex.

Example 0.3.

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Algebraic topology seeks to capture the

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"essence" of a topological space in terms of various algebraic and combinatorial objects. We will construct three such gadgets: the fundamental group, homology groups, and the cohomology ring. We will apply these to prove various

~~Math 215a Home Page~~

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For if $[g(d_1)]_j = [z_1]$ and $[g(d_2)]_j = [z_2]$ in then $[g(d_1 + d_2)]_j = [z_1 + z_2]$, so that $[z_1 + z_2]$ is given by $a(d_1 + d_2) = a(d_1) + a(d_2)$, and hence $+$. The proof that the sequence of homology groups is exact proceeds in three stages. (a) Certainly since $g \circ f = 0$ implies 0 . Conversely if $[z] \in \text{Ker } g$ then $g(z) = a(e)$ for some $e \in E$.

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