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60SMBR: Intro to Topology Intro to Topology

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HATCHER'S ALGEBRAIC TOPOLOGY SOLUTIONS REID MONROE HARRIS Van Kampen's Theorem Problem 1. Suppose Gand Hare nontrivial groups. Suppose x= g 1h 1 ···g nh n lies in the center of G H, where g i Gand h i H. For any g G 1 H, we have gg 1h 1 ···g nh ng 1h 1 n g 1 n ···h 1 1 g 1 1 = 1. The only way for this to be true for all gis if h i= 1 H for all i.

~~Van Kampen's Theorem~~

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Also available are some additional exercises. The Exercises: I have not written up solutions to the exercises. The 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 University~~

We may assume the polynomial is of the form p (z) = zn + a1 zn 1 + ··· + an . If p (z) has no roots in C , then for each real number r 0 the formula fr (s) = p (r e2 is)/p (r) |p (r e2 is)/p (r)| defines a loop in the unit circle S 1 C based at 1 . As r varies, fr is a homotopy of loops based at 1 .

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1(x) and G(x,1) = F(x,0) = f. 0(x), i.e. a homotopy between f. 1and 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). Let f. 0: X Y be a homotopy equivalence with homotopy inverse g.

~~Allen Hatcher: Algebraic Topology~~

Solutions to Homework # 2 Hatcher, Chap. 0, Problem 16.1 Let R1:= M n 1 R= n ~x = (xk)k 1; 9N: xn = 0; 8n N : We define a topology on R1 by declaring a set S R1 closed if and only if, 8n 0, the intersection S of with the finite dimensional subspace Rn = ' (xk)k 1; xk = 0; 8k > n ; is closed in the Euclidean topology of Rn. For each ~x 2 R1 set j~xj:= X1 k=0 x2 k

~~Solutions to Homework # 1 Hatcher, 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.

~~Allen Hatcher's Homepage - Cornell University~~

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 coe cients. Question 1 a.For a pair of spaces (X;Y) de ne Z= ((Y [0;1])tX)= where (y;1) yand (y;0) (y0;0) for all y;y02Y. Show that for all n2N we have H.

~~Solutions Exam algebraic topology 1, 1-23-2019~~

By Lemma 1.15 (Hatcher), every loop in Xbased at x 0 is homotopic to a product of loops, where each loop is either contained in e nor A. Since n 2, a loop contained in e is nullhomotopic, so every loop in Xis homotopic to a loop in A. Thus if [f] 2 1(X;x 0), there there is a loop f0: I!Aso that [f0] = [f]. We have f0= f0, so [f0] = [f0] = [f0] = [f]

~~Homework 3 MTH 869 Algebraic Topology~~

Let f 1(X, x0). Let E = Int(en) and consider f 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 (ai, bi). Let x E and let U be an open ball around x in en.

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

Allen Hatcher: Algebraic Topology ALLEN HATCHER: ALGEBRAIC TOPOLOGY MORTEN POULSEN All references are to the 2002 printed edition Chapter 0 Ex 02 Define H: (Rn {0})×I Rn {0} by H(x,t) = (1t)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 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.

~~Allen Hatcher - Purdue University~~

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Algebraic topology seeks to capture the "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~~

For if [g(d1)j = [zr] and [g(d2)] =[z2]inthen [g(d1 + d2)1 =[z1+ z2],sothat + [z2}) is given by a(d1 + d2) a(d1) + a(d2), and hence +=+ The proof that the sequence of homology groups is exact proceeds in three stages. (a)= Certainlysincegf =0implies 0. Conversely if [z] E Kerthen g(z) =a(e)for some e E.

~~ALGEBRAIC TOPOLOGY - School of Mathematics~~

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