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### **A List of Recommended Books in Topology**

1. What is algebraic topology? 5 2. The fundamental group 6 3. Dependence on the basepoint 7 4. Homotopy invariance 7 5. Calculations:  $\pi_1(\mathbb{R}) = 0$  and  $\pi_1(S^1) = \mathbb{Z}$  8 6. The Brouwer fixed point theorem 10 7. The fundamental theorem of algebra 10 Chapter 2. Categorical language and the van Kampen theorem 13 1. Categories 13 2. Functors 13 3 ...

### **A Concise Course in Algebraic Topology J. P. May**

MATH 4565 TOPOLOGY Spring 2010 Homotopy 1. Homotopic functions Two continuous functions from one topological space to another are called homotopic if one can be continuously deformed into the other, such a deformation being called a homotopy between the two functions. More precisely, we have the following

### **Homotopy - Northeastern ITS**

General topology is the branch of topology dealing with the basic set-theoretic definitions and constructions used in topology. [13] [14] It is the foundation of most other branches of topology, including differential topology, geometric topology, and algebraic topology.

### **Topology - Wikipedia**

6 Paper 4, Section II 20G Algebraic Topology Let  $T = S^1 \times S^1$  be the 2-dimensional torus, and let  $X$  be constructed from  $T$  by removing a small open disc. (a) Show that  $X$  is homotopy equivalent to  $S^1 \vee S^1$ . (b) Show that the universal cover of  $X$  is homotopy equivalent to a tree.

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