

Math 60440: Basic Topology II

Problem Set 1

The homework consists of the following problems from Hatcher:

- Chapter 4.1, problems 1, 2, 3 (look up the definition of an H-space!)
- Chapter 2.1, problems 1, 2, 3

Also,

- Prove that the Hurwitz map from $\pi_1(X, x_0)$ to $\Omega_1^{\text{or}}(X)$ is a group homomorphism.