

Math 60440: Basic Topology II

Problem Set 5

- Do the following problems from Hatcher:
 - Section 2.1, problems 20, 27, 29.
 - Section 2.2, problems 1, 2, 4.
- Do the following additional problem:
 - Let G be a finite graph such that no vertex has degree 2. Prove that any homeomorphism $f: G \rightarrow G$ must take vertices to vertices (hint: local homology!).