Topology II, Newberger, Fall 2005

Exam 1 Review

This exam covers Sections 22, 25, 51, 52.

I. Know the following definitions and theorems:
   a. quotient map, quotient topology, quotient space
   b. topological group
   c. saturated set
   d. components, path components
   e. locally connected, locally path connected
   f. homotopic, path homotopic
   g. fundamental group
   h. simply connected
   i. homomorphism induced by h
   j. evenly covered, covering map

II. You will be asked to prove at least one of the following theorems. Theorems 22.2, 25.1, 25.5, 51.1, 52.3.

III. You will be asked to solve at least two problems involving the vocabulary and theorems in the sections listed above.