Homework for 651

Problems due February 13, 2007

1. Problem 10, page 39 in Hatcher.

2. Problem 14, page 39 in Hatcher.

3. Find a subgroup of F_2 the free group on two generators that is isomorphic to the free group on infinitely many generators.

4. Show that for a finite CW complex X the inclusion of the two-skeleton of X into X induces an isomorphism of the fundamental groups.

5. Problem 7, page 53 in Hatcher.