

Math 722: Algebraic Topology
Problem Set #4
Due Wednesday, March 21

1. p. 79, #1
2. p. 79, #5
3. p. 79, #10
4. p. 80, #13
5. Find the group of deck transformations for each of the covering spaces (1), (2), (3), (5) (9), (11) and (13) of $S^1 \vee S^1$ on page 58.
6. * Just for fun! (extra credit) p. 79 #6. Make sure to first check that the picture drawn is a covering space of X .