

TOPOLOGY 2, HOMEWORK 7

- (1) Hatcher, Section 1.2 #9
- (2) Hatcher, Section 1.2 #14
- (3) Hatcher, Section 1.2 #15
- (4) Hatcher, Section 1.2 #16
- (5) Hatcher, Chapter 0, #14
- (6) Show that the CW complex Σ_g constructed in class is a *2-dimensional manifold*; that is, it is Hausdorff and second-countable, and each point has a neighborhood homeomorphic to an open subset of \mathbb{R}^2 .