

Algebraic topology I, Fall 2014

Homework 1, due Monday, September 15

1. Explain how to equip (a) \mathbb{R}^2 and (b) $\mathbb{R}^2 \setminus \{(0,0)\}$ (punctured plane) with a CW-complex structure.

Exercises 5, 6a, 8, 9, 17, 20, 23 from Hatcher, Chapter 0, pages 18-20.