18.905 Problem Set 8

Due Wednesday, November 1 in class

1. Hatcher, Exercise 2 on page 280.

2. For any k, compute the homology of the k-fold product

$$\mathbb{RP}^2 \times \cdots \times \mathbb{RP}^2$$

   with $\mathbb{Z}$ and $\mathbb{Z}/2$-coefficients. (A recursive formula is fine.)

3. Hatcher, Exercise 4 on page 205.

4. Hatcher, Exercise 8 on page 205.