

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

$$\mathbb{R}P^2 \times \cdots \times \mathbb{R}P^2$$

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.