

Topology

Homework #10. Due Wednesday, December 6, before the lecture.

Exercises 2, 3, 4 on page 366.

Exercise 1 on page 375.

1. Simplify the following elements of the free group $\mathbb{Z} * \mathbb{Z}$:

$$ab^2a^{-1}ab^{-2}a^{-1}, \quad (ab^2a^{-1})^{50}, \quad (aba^2b^{-2})^{-1}aba^2.$$