

## Math 4096 Homework 6

Due Thursday, February 27

1. Exercise 4.18. Show that the surface produced by Seifert's algorithm does not depend on the orientation we choose for a knot.
2. Let  $L$  be a link of 2 components. What happens to the surface produced by Seifert's algorithm if we change the orientation on one component of  $L$ ?
3. Exercise 4.20. Find surfaces for the first two diagrams (skip the third).
4. Exercise 4.22.
5. Exercise 4.27.

By Thursday 2/27, please also tell me what topic your group is pursuing, and an initial list of references that you plan to use.