Freie Universität Berlin Institut für Mathematik Prof. Dr. K. Polthier, H.-S. Lipschütz

WiSe 18/19

Status: October 30, 2018

Differential Geometry III – Homework 02

Submission: November 7, 2018, 12:15 am

1. Exercise (4 points)

Construct a 2-covering of the Klein bottle with a torus. Justify your solution.

2. Exercise (4 points)

The Klein bottle contains two Möbius strips. Justify why they are not homotopic.

Total: 8