Homework 2

Math 282 Computational Geometry
Spring 2019

Solve the following problems from the textbook, and submit your solutions either on Moodle or in the homework mailbox (RMS level 3, near the fireplace) by 4:00pm on **Friday, February 22**.

1. Exercise 1.6

2. Exercise 1.14

3. Exercise 1.29 — Prove this directly, without using Theorem 1.32.

4. Exercise 1.45

5. Exercise 1.46

6. A *translation dissection* is a dissection such that the pieces may only be translated, not rotated or flipped. Find a two-piece translation dissection of an 8×9 rectangle to a 9×8 rectangle. For this, each piece will be an orthogonal polygon. Your cuts may consist of many straight segments that meet at right angles.