Homework 11

Math 282 Computational Geometry
due 5:00pm on Thursday, May 13

Solve the following problems from the textbook, and write your solutions clearly and neatly. Make sure to explain your reasoning and provide mathematical details that support your answers. For a few tips on writing solutions, see this helpful guide for mathematical writing.

These exercises are for everyone, regardless of whether or not you are taking this course for CS elective credit.

You may write or type your solutions electronically, or write them on paper and scan/photograph them. If you photograph your papers, please use a scanning app to produce a single PDF file containing your solutions. Upload your written solutions to the Homework 11 assignment on Moodle.

1. Exercise 6.54 — cube, tetrahedron, and octahedron only
2. Exercise 6.56
3. Exercise 6.59 — cube, tetrahedron, and octahedron only
4. Exercise 7.1
5. Exercise 7.2
6. **Begin researching your topic for the final project. Turn in answers to the following questions:**
   (a) What is your topic for your final project?
   (b) What three (or more) sources of information have you found about your topic?
   (c) What are your goals for the project? Possible goals include producing some examples, proving theorems, implementing an algorithm, applying algorithms to data, or making a research paper understandable to your classmates.