Homework 3

Math 330

due at 5pm on Thursday, September 28, 2023

Solve the following problems and communicate your solutions clearly. Explain your work using complete sentences, and include diagrams as appropriate.

For this homework, you must type your solutions to all of these problems in LaTeX. Plots/graphs may be drawn by hand or using technology and inserted into your LaTeXdocument. Make sure your solutions are easy to read, in order, and clearly labeled. Upload a single file containing your solutions to the Homework 3 assignment on Moodle.

The following problems are from the textbook.

1. (4 points) Exercise 2.4.1

2. (6 points) Exercise 2.4.2

3. (6 points) Exercise 2.4.3

4. (4 points) Exercise 2.4.4 (a) and (b)

Hint: You may look up product-to-sum trig identities.

5. (5 points) Exercise 2.4.9

6. (5 points) Exercise 2.4.11 (a) and (b)