Algebraic Topology (Fall 2023): Homework 5

- You **must email your submission** as a **PDF file** to kbala@wsu.edu. You are welcome to write answers by hand, and scan or take photos of the writings. Put all the images on a PDF file, though.
- Your file name should identify you **in the following manner**. If you are Steamy Ray Vaughan, you should name your submission SteamyVaughan_Hw5.pdf (and **NOT** "Steamy Vaughan*pdf" or Steamyvaughan_*pdf or ...). Please avoid white spaces in the file name :-).
- Begin the SUBJECT of your email submission with the same FirstnameLastname, expression, e.g., "SteamyVaughan Hw5 submission".
- The book of Munkres (Elements of Algebraic Topology) is denoted [M].
- This homework is due by 11:59 PM on Thursday, October 26.
- 1. (30) [M] Problem 3, Page 40. If you created a different (smaller) simplicial complex for Problem 2 from the same page (seen in Homework 4), you could use it here and assign a different labeling for its vertices.
- 2. (25) [M] Problem 7, Page 41.
- 3. (20) [M] Problem 1, Page 50.
- 4. (25) [M] Problem 3, Page 51.
- 5. (25) [M] Problem 5, Page 51.