Algebraic Topology (Fall 2023): Homework 7

- 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 Leopold Butters Stotch, you should name your submission LeopoldStotch_Hw7.pdf (and **NOT** "Leopold Stotch*pdf" or Leostotch_*pdf or ...). Please avoid white spaces in the file name :-).

- **Begin the SUBJECT of your email submission with the same `FirstnameLastname`, expression, e.g., "LeopoldStotch Hw7 submission".**

- The book of Munkres (Elements of Algebraic Topology) is denoted [M].

- **This homework is due by 11:59 PM on Thursday, Nov 30**.

1. (15)   [M] Problem 1, Page 135. Drawing some diagrams should help.

2. (15)   [M] Problem 3, Page 136.

3. (30)   [M] Problem 3, Page 141.

4. (20)   [M] Problem 4, Page 141.

5. (20)   [M] Problem 1, Page 144.