

## MATH 4530: HOMEWORK #1

- Due Friday, September 1st at 11pm.
- To be submitted on the course gradescope.
  - Please remember to indicate which pages your solutions to each problem appear on.
- § $n$ : # $m$  refers to exercise number  $m$  from the exercise list following Section  $n$  of the textbook (Topology, Second Edition by James R. Munkres).
- You are encouraged to discuss the problems in groups. *However, you must write your solutions individually!*

### Problems.

- (1) §13: #1
- (2) §13: #3
- (3) §13: #4
- (4) §13: #5
- (5) §13: #6
- (6) §13: #7
- (7) §13: #8