

Math 141 Homework 7. Due 10/29

Reminder: if you are interested in having your solutions used for the answer key, please email me your TeX file with any style files you use.

“GP n ” denotes Guillemin-Pollack, chapter 1, section n .

1. GP 7, 3. (Hint: use the fact from class that for any collection of open neighborhoods N_q for each $q \in Z$, there is a countable collection N_{q_1}, N_{q_2}, \dots covering Z .)
2. GP 7, 4
3. GP 7, 18
4. GP 8, 6, 8
5. Extra credit: GP 8, 10.