

Homework 12

Math 416 (sections 200 [Honors] and 500 [Regular]), Spring 2017

This homework is due on Thursday, April 13. *Write your section number on the top of your homework.*

0. (*This problem is not to be turned in.*)
1. Read Section 41
2. (Practice Problems) Section 41 #1, 4, 5
3. Section 41 #2, 6
4. (a) Is there a simplicial complex for which $H_0 \cong \mathbb{Z}_3$? If yes, draw an example and explain your answer. If no, explain why not.
(b) Is there a simplicial complex for which $H_0 \cong \mathbb{Z}^3$? If yes, draw an example and explain your answer. If no, explain why not.
5. (Honors only!) #10–11