

Homework 8

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

This homework is due on Thursday, March 9. *Write your section number on the top of your homework.*

0. (*This problem is not to be turned in.*)
 - (a) Read Sections 34, 36–37.
 - (b) (Practice Problems) Section 36 #2, 3, 5
1. Suggest a problem for the next exam that pertains to Sections 16, 34, and/or 36–37.
2. Section 34 #8, 9
3. Section 36 #10, 14, 16, 20
4. Section 37 #3(a–b, f–j), 5
5. Is every simple group of order 56 simple? Prove your answer.
6. Is every group of order $455 = 5 \cdot 7 \cdot 13$ simple? Prove your answer.
7. (Honors only!) Section 34 #5
8. (Honors only!) Section 37 #8, 10, 11