

Homework 15

Math 415 (section 502), Fall 2015

This homework is due on TUESDAY, December 8. You may cite results from class or previous homeworks/exams.

0. (*This problem is not to be turned in.*)
 - (a) Read Section 22–23.
 - (b) Section 22 #6, 17, 25–26
 - (c) Section 23 #20, 28, 35–37
1. Does complex conjugation $(a + bi) \mapsto (a - bi)$ define a ring isomorphism $\mathbb{C} \rightarrow \mathbb{C}$? Give a proof.
2. Section 22 #4, 8, 10, 23, 27
3. Section 23 #4, 6, 12, 25, 26, 34