

Reading/Blogging Assignments

Come to class on

1. Wednesday having re-read and blogged on 3.3 after the point we got to in class.
2. Friday having read and blogged on 3.4.

Problem Set 7, Due October 22

Feel free to do some experimentation via a computer algebra system to develop intuition for the problem.

1. Show that every extension L/k of degree 2 where $k \subset \mathbb{C}$ is normal. (3 points)
2. Let f be a polynomial of degree n over k has splitting field K . Show that $[K : k]$ divides $n!$. (10 points)
3. Problem 24 on page 59. (10 points)