April 30, 2011

18.702 Problem Set 9

due wednesday, May 11, the last day of class.

These problems are not especially difficult. I recommend working on them in order to prepare for the quiz on Friday, May 6.

1. Chapter 16, Problem 2.5 (*discriminant of a quartic*)

2. Chapter 16, Problem 7.10 (*stabilizers of elements*)

3. Chapter 16, Problem 7.11 (*a square root and a cube root*)

4. Chapter 16, Problem 9.3 (*a nested square root*)

5. Chapter 16, Problem 9.12a,c,d (*some quartic equations*)

6. Chapter 16, Problem 10.4 (*degrees of sums of roots of unity*)

7. Chapter 16, Problem 11.1 (*roots of a cubic*)

18.702 Algebra II
Spring 2011