

(Math 371) Homework 7:

Due November 9, 2006

All Exercises are in Algebra by Artin

Exercise 1: Chapter 13 Exercise: 6.1 (p. 533)

Exercise 2: Chapter 13 Exercise: 6.5 (p. 533)

Exercise 3: Chapter 13 Exercise: 6.9 (p. 533)

Exercise 4: Chapter 13 Exercise: 6.10 (p. 533)

Exercise 5: Chapter 13 Exercise: 6.14 (p. 533)

Exercise 6: Chapter 13 Exercise: 9.2 (p. 534)

Exercise 7: Chapter 14 Exercise: 1.9 (p. 575)

Exercise 8: Chapter 14 Exercise: 1.13 (p. 575)

Exercise 9: Let F be a field and let K, K' be algebraic closures of F . Show that there is an isomorphism from K to K' which is the identity on F .