

(Math 371) Homework 9:

Due November 29, 2007

All Exercises are from Algebra by Artin.

Exercise 1: Prove that any two algebraic closures of a field F are isomorphic.

Exercise 2: Chapter 13 Exercises: 5.2 (p. 532)

Exercise 3: Chapter 13 Exercises: 6.7 (p. 533)

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

Exercise 5: Chapter 13 Exercises: 6.13 (p. 533)

Exercise 6: Chapter 13 Exercises: 6.14 (p. 533)

Exercise 7: Chapter 13 Exercises: 9.1 (p. 534)

Exercise 8: Chapter 13 Exercises: Misc.2 (p. 535)

Exercise 9: Chapter 14 Exercises: 1.6 (p. 575)

Exercise 10: Chapter 14 Exercises: 1.8 (p. 575)

Exercise 11: Chapter 14 Exercises: 1.13 (p. 575)

Exercise 12: Chapter 14 Exercises: 1.20 (p. 576)