

Math 500: Graduate Algebra. Instructor: Walton

Homework #9 on Polynomial Rings over Fields and an Introduction to Modules

Due: Wednesday, November 6, 2019 at the beginning of class.

Include full statements of problems in your solution set. See syllabus for grading guide.

- (1) Dummit-Foote §9.4, #1, 2
- (2) Dummit-Foote §9.4, #12, 13
- (3) Dummit-Foote §9.5, #3
- (4) Dummit-Foote §10.1, #4
- (5) Dummit-Foote §10.1, #8, 10
- (6) Dummit-Foote §10.1, #19
- (7) Dummit-Foote §10.2, #1, 3
- (8) Dummit-Foote §10.2, #6
- (9) Dummit-Foote §10.2, #8
- (10) Dummit-Foote §10.2, #9, 10