

## Math 595: Reading and Research I

### Quasi-Projective Modules over Commutative Rings

Semester 082

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Take-home-exam (due June 20, 2009)

**Textbook:** F. Anderson and K. Fuller, *Rings and categories of modules*. Graduate Texts in Mathematics, Vol. 13. Springer-Verlag, New York-Heidelberg, 1974.

**Q1.** Solve (at least) 3 problems from each section and at least a total of 10 problems marked with "\*":

Section	Problems
16	1, 3, 4, 8, 10, 11, 17*, 18*, 19*
17	3, 4*, 7, 11, 12*, 14*, 17*, 18, 19*
18	2*, 6, 7, 9*, 10*, 11*, 13*, 18*, 19, 20, 25
19	1, 4*, 9*, 11*, 12, 16*, 23, 24*
20	7, 8*, 9, 12, 13, 14, 16*, 17*

**Q2.** Solve (at least) 2 problems from each section and at least a total of 5 problems marked with "\*":

Section	Problems
27	1*, 2, 4*, 5*, 6*, 8, 9*
28	2, 3, 4*, 5, 7, 11*
29	1, 2*, 3*, 4*, 5

**Good Luck**