

COMMUTATIVE ALGEBRA, FALL 2013

ASSIGNMENT 4

Due **Friday November 29** in class.

- (1) Rowen ch8, your choice of #2 or #4 (p277)
- (2) Rowen ch8 #24 (p278)
- (3) Rowen ch9 #11 (p281)
- (4) Let R be a domain. Prove that R is a field iff every R -module is projective.
- (5) Complete the checks we didn't do in class for the homology functor.
- (6) Rotman 10.29 (p828)
- (7) Rotman 10.52 (p869) – Read the footnote just for your own interest.
- (8) Find at least 3 typos in the scribed notes (yours or those of others). Correct the tex files and send them back to me.