

**Problem Set 2. Due Tuesday January 31.**

AM = Atiyah-Macdonald.

- (1) Exercise 19 on p.13 of AM.
- (2) Exercise 22 on p.13 of AM.
- (3) Exercise 21, parts vi) and vii) on p. 13 of AM.
- (4) Exercise 45 on p. 335 of Dummit and Foote  
(see the scan).