

# Math 464/564 : Algebra III

## Problem Set 5

1. Read chapters 6 and 7 of Atiyah-MacDonald.
2. Math 564 students do all of the following, and Math 464 students choose 8 (however, be warned that some problems require earlier ones to solve!).
  - Chapter 6 : 1, 4, 5, 6, 7, 8 (see the exercises in chapter 1 for the definition of the topology on Spec of a ring).
  - Chapter 7 : 1, 4, 5, 8, 9, 11