Homework 11
Due: Friday, April 20

This homework set is an algebraic complement to what we've been doing in class.

1. Please make sure you can do #2 from the previous homework set.

2. *Algebraic background:*

   (a) Read the basic definition of the length of a module [Liu, p. 258.]
   (b) Read the basic definition of the exterior product of vector spaces in your favorite algebra book.

3. [Liu, 7.1.6]

4. [Liu, 7.1.8] *You may assume A and B noetherian, and* Spec $B \rightarrow$ Spec A *quasifinite.*

5. [Liu, 7.2.2]