Problem Set 5 Due Friday, November 2.

Algebra

Math 110A, Fall Quarter 2012

- 1. Do problems 4.1.5, 4.1.6, 4.1.11, 4.1.19 in the textbook.
- 2. Do problems 4.2.5 (a)–(d), 4.2.14 in the textbook.
- 3. Let R be a commutative ring with identity. Show that an element of R[x] is nilpotent if and only if all its coefficients are nilpotent.