

## MATH 380, PROBLEM SET 5

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### 1. PROBLEMS

All commutative algebra, all the time.

- (1) From Atiyah-Macdonald, chapter 1. Problems 1-9, 11.
- (2) From Atiyah-Macdonald, chapter 2. Problems 1, 4, 12.
- (3) Optional: From Atiyah-Macdonald, chapter 2. Problems 22-24. (This is for all you Spec fans in the house.)
- (4) From Atiyah-Macdonald, chapter 7. Problem 26.
- (5) From Atiyah-Macdonald, chapter 9. Problem 5.