

**MATH 256B: PROBLEM SET #3**  
**DUE THURSDAY, FEB. 22**

BRIAN OSSERMAN

Read all of the following exercises. Do the first three problems, and then choose one of the remaining four problems to do as well.

*Exercise 1.* Do Hartshorne, Exercise 4.4 of Chapter III.

*Exercise 2.* Do Hartshorne, Exercise 4.5 of Chapter III.

*Exercise 3.* Do Hartshorne, Exercise 4.7 of Chapter III.

*Exercise 4.* Do Hartshorne, Exercise 3.6 of Chapter III.

*Exercise 5.* Do Hartshorne, Exercise 3.8 of Chapter III.

*Exercise 6.* Do Hartshorne, Exercise 4.1 of Chapter III.

*Exercise 7.* Do Hartshorne, Exercise 4.11 of Chapter III.