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.