

AG HOMEWORK 6

DUE MAY 19 TO GRADESCOPE

The following exercises come from Hartshorne Chapter 2. (If you need a copy of the book, let me know/send me an email.)

Here are some exercises on sheaves of modules and divisors and morphisms, Sections 5, 6, 7.

We will define (quasi-)coherence on Monday to use for projective morphisms.

- (1) 5.1
- (2) 5.4
- (3) 5.7
- (4) 5.12
- (5) 5.16
- (6) 6.2 parts (a)(b)(d)
- (7) 6.5 parts (a)(b)(c)
- (8) 6.8
- (9) 6.10
- (10) 7.1
- (11) 7.5