

Algebraic Geometry II - Solutions

18th May 2019

Week 1

1. [2, prop. 2.1, ex. 2.2]
2. [2, lemma 2.10]
3. Assignment 1
4. [2, prop. 2.14]

Week 2

1. [2, prop. 2.16]
2. [2, p. 70]
3. Assignment 1
4. [2, prop. 2.19]
5. [2, prop 2.19]
6. [2, prop. 2.21]

Week 3

1. [1, p. 100]
2. [1, p. 107]
3. [1, p. 113]
4. Notes
5. Assignment 1

Week 5

- 1.
2. Assignment 2
- 3.

Week 6

- 1.
2. Assignment 2
- 3.

Week 7

- 1.
2. Assignment 2
3. Assignment 2

References

- [1] Mumford David. *The Red Book of Varieties and Schemes*. Lecture Notes in Mathematics. Springer Berlin Heidelberg, 1988.
- [2] Kenji Ueno. *Algebraic Geometry: From algebraic varieties to schemes*. Vol. 1. American Mathematical Soc., 1999.