

Math 627 Homework #6, Fall 2022

Instructor: Ezra Miller

Solutions by: ...your name...

Collaborators: ...list those with whom you worked on this assignment...

Due: Tuesday 29 November 2022

READING ASSIGNMENTS in [Vakil]

- by Tuesday 15 November: §13.1–§13.4
- Thursday 17 November: §13.5–§13.7
- by Tuesday 22 November: §10.1, §10.2
- Thursday 29 November: §10.3, §12.7

EXERCISES: In [Vakil], exercises have labels C.S.N, for “Chapter C, Section S, Exercise N”, where $C, S \in \mathbb{Z}_+$ and $N \in \mathbb{A}, \dots, \mathbb{Z}$. It is not expected that everyone will complete all of the assigned exercises, but those marked “[essential]” are essential.

8.2.A [essential]

(a)

8.2.E

8.2.F [essential]

8.2.I

8.2.J [essential]

8.2.M [essential]

(a)

(b)

(c)

8.2.O

8.2.P [essential]

9.2.K

9.3.E [essential]

9.3.F [essential]

9.4.E

9.4.F [essential]

13.4.A

13.4.B [essential]

13.5.F

13.7.D

13.7.F [essential]

13.7.K [essential]

References

[Vakil] Ravi Vakil, *The Rising Sea: Foundations of Algebraic Geometry*, November 18, 2017