

# Math 627 Homework #5, Fall 2022

Instructor: Ezra Miller

Solutions by: ...your name...

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

Due: Thursday 10 November 2022

READING ASSIGNMENTS in [Vakil]

- by Tuesday 1 November: §8.3
- by Thursday 3 November: §9.1
- by Tuesday 8 November: §9.2
- by Thursday 10 November: §9.3, §9.4
- by Tuesday 15 November: §13.1–§13.4

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.

7.1.B [essential]

7.3.A

7.3.C (a)

(b)

5.1.J

7.3.F [essential]

7.3.J

7.3.O [essential]

7.3.P

7.3.Q [essential]

(a)

(b)

(c)

8.1.G

8.1.J [essential]

(a)

(b)

(c)

(d)

8.1.M [essential]

## References

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