MATH 8253: ALGEBRAIC GEOMETRY HOMEWORK 3 DUE WEDNESDAY, OCTOBER 19, 2:17 P.M.

INSTRUCTOR: SASHA VORONOV

- 1. Review your course notes and read Gathmann's Chapter 4: Morphisms from Section 4.15 through the end, Chapter 5: Varieties, and Chapter 6: Projective Varieties I: Topology through Section 6.18. Do Exercises 4.19, 5.7, 5.8, 5.11, 5.22, 5.24, 6.8, 6.14.
- 2. Do not hesitate to send me an email at voronov@umn.edu, should you have a question or need a hint. I am also holding office hours Monday, Tuesday, and Thursday. Times have been adjusted as compared to the initial syllabus check the class home page.
- 3. Submit the homework by the start of our Wednesday, October 19, class meeting, *i.e.*, by 2:17 p.m. If you can submit it electronically to Gradescope at https://www.gradescope.com/courses/445177, it would be greatly appreciated.