

# Math 223A — Homework #3

“Due” Apr 21, 2009

The page and problem numbers below refer to Hartshorne’s “Algebraic Geometry.”

- Catch up on the homework of the past two weeks.
- Chapter I, #3.1, 3.3, 3.5, 3.6, 3.15, 3.17, 3.18, 3.20.
- Define “monomorphism” and “epimorphism” in the category of varieties and decide if these are equivalent to the underlying maps being injective or surjective, respectively.