

Math 223A — Homework #1

“Due” Apr 7, 2009

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

- Chapter I, #1.1-1.4, 1.8, 1.9, 1.11, 1.12
- If k is any infinite field, not necessarily algebraically closed, is $\dim \mathbf{A}_k^n = n$?