

Math 256A. Problem Set #4

Due Thursday, 1 October

1. Exercise 5.1
2. Exercise 5.3
3. Exercise 5.6
4. Let X be a variety, let U be a (nonempty) open affine subset of X , and let $P \in X$ be a point not in U . Then there is a function $f \in A(U)$ that does not extend to a regular function at P . Moreover, f can be chosen from any given generating set for $A(U)$.