

Math 256B. Homework 11

Due Wednesday 17 April

1. Hartshorne III Ex. 6.5.
- 2(NC). Hartshorne III Ex. 6.7.
3. Prove part (c) of Theorem 7.1 without using the theory of δ -functors. Instead, use short and long exact sequences and induction on i , as was done in class in other proofs. Do not worry about showing that the isomorphisms are natural and functorial.
However, don't use any non-canonical isomorphisms (e.g., an isomorphism of a finite-dimensional vector space with its dual).