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 $\delta$-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.