Problem Set 3
Due: February 26, 2014

1. Let $R = \mathbb{C}[t]/(t^2)$, and let $N = R/(t)$. Show that $\text{Ext}^i(N, N) \cong \mathbb{C}$ for all $i \geq 0$.

2. Weibel, Exercise 2.3.5.

3. Weibel, Exercise 2.3.7.

4. Weibel, Exercise 2.4.4. (Just do the “homological” version.)

5. Weibel, Exercise 2.7.5. (You will have to read Application 2.7.8 to do this.)