HOMEWORK 5

DUE 6 MAY 2016

Part I.

1. Let S be a multiplicatively closed subset of R and M, N two R-modules. Show that

 $S^{-1}(M \otimes_R N) \simeq S^{-1}M \otimes_{S^{-1}R} S^{-1}N.$

Part II. From Atiyah-MacdonaldChapter 2: 5, 8, 10, 13Chapter 3: 1, 2, 3, 12, 13

Bonus.

Atiyah & Macdonald, Chapter 3: 25, 26