

Math 504 HW2

Due: 7.03.2019

February 28, 2019

1. Page 179: 9, 11
2. Page 180: 12
3. Page 188: 1
4. Let R be a ring with identity and F a unitary R module. Suppose that F is free over X with $\iota : X \rightarrow F$.
 - (a) Show that ι is injective.
 - (b) Show that $\iota(X)$ is a basis of F .