

HW #3, due 10-18

Math 504A

1. Dummit and Foote (DF), Exercise 9. p. 106.
2. DF Exercise 10, p.106.
3. DF Exercise 24, p. 358.
4. DF Exercise 11, p. 376.
5. Show by induction on n that a submodule of the \mathbb{Z} -module \mathbb{Z}^n is free of rank at most n .

Also read section 10.4 and start section 10.5.