

HOMEWORK 6

DUE 2 JUNE 2017

1. Atiyah-MacDonald, Chapter 5, Exercise 5.
2. Atiyah-MacDonald, Chapter 5, Exercise 14.
3. Atiyah-MacDonald, Chapter 5, Exercise 15.
4. Atiyah-MacDonald, Chapter 5, Exercise 28.
5. Atiyah-MacDonald, Chapter 6, Exercises 3,4.
6. Atiyah-MacDonald, Chapter 6, Exercises 5-7.
7. Atiyah-MacDonald, Chapter 6, Exercise 8.
8. Atiyah-MacDonald, Chapter 7, Exercise 1.
9. Atiyah-MacDonald, Chapter 7, Exercise 4.
10. Atiyah-MacDonald, Chapter 7, Exercise 8.
11. Atiyah-MacDonald, Chapter 7, Exercise 15.
12. Atiyah-MacDonald, Chapter 8, Exercise 2.
13. (Challenge problems) Atiyah-MacDonald, Chapter 5, Exercises 31-33. These exercises are useful if you ever want to understand adic and perfectoid spaces – the hottest topic in number theory these days.