Math 430 – Problem Set 2

Due February 5, 2016

The following problems are from Section 3.4 of the textbook. Make sure you have the 2015 version (downloadable at `http://abstract.ups.edu/download/aata-20150812.pdf`).

1. 4.14

2. 4.15(c) and (f)

3. 4.16(c)

4. 4.17(c)

5. 4.27

6. 5.2(c), (i) and (n)

7. 5.7

8. 5.16

9. 5.26 (note: each part gives a different set of generators)

10. 5.30

11. 6.5(f)

12. 6.8

13. 6.11 (hint: the best way to prove that five statements are equivalent is to order them and show $1 \Rightarrow 2 \Rightarrow 3 \Rightarrow 4 \Rightarrow 5 \Rightarrow 1$)

14. 6.15

15. 6.18