

Math Studies Algebra: homework #18*

Due 2 March 2016, at start of class

Collaboration and use of external sources are permitted, but must be fully acknowledged and cited. For your own learning, you are advised to work individually. Collaboration may involve only discussion; all the writing must be done individually.

Homework must be submitted in \LaTeX via e-mail under the same rules as the previous homeworks.

1. Exercise 2.6 from Section 2.3 in Serre. [For part (c), you do not need to write anything as the solution is provided. You should read the solution though.]
2. Exercise 3.1 from Section 3.1 in Serre. [Note that G is not necessarily finite.]
3. Exercise 3.2 from Section 3.1 in Serre.
4. Exercise 3.3 from Section 3.1 in Serre.

*This homework is from <http://www.borisbukh.org/MathStudiesAlgebra1516/hw18.pdf>.