

TMA 965 : Discrete Mathematics

D3-spring, 03

Homework 5

The following rules are in force for all homework exercises. (see the course description):

1. Explain (prove) all of your answers.
2. Inform me whom you have worked with. (Recall you are encouraged to cooperate with other students to figure out how to solve the problems but the final formulating and writing up of the solutions must be done yourself.)
3. Save (of course) all your homeworks together with my comments.
4. All exercises given refer to the new version of the book which arrived at Cremona on Wednesday. *****

Problems not to be handed in

[Note I no longer am calling them “warm up” problems]

1. Exercise 10.6.1-10.6.5 (not 3).
2. Exercise 20.4.3-20.4.4.
3. 20.6.1.
4. If σ is a permutation, show that the order of σ is the least common multiple of the cycle lengths of σ .

To be handed in Thursday February 27

1. Exercise 12.7.16.

2. Exercise 20.8.4.

3. Exercise 20.8.5.

4. Exercise 21.4.1.

5. Exercise 21.4.2.

6. Exercise 21.4.3.

7. Exercise 21.4.4..