

1. READING

Read Sections 1.8, 1.9, and Chapter 2.

- (1) (Based on 1.9) Explain how words in the alphabet $S \cup S^{-1}$ correspond to paths in the Cayley graph. (We won't go over this in class, so come talk with me if you have questions.)
- (2)

2. HOMEWORK:

- (1) **Raj** should present the proof of Theorem 1.55.
- (2) **Yusheng** should present the proof of Theorem 1.58.
- (3) **Teddy** should present the proof of Proposition 2.2. (You may assume Prop. 2.1, but should explain its statement in advance of the proof.)
- (4) **Claire** should summarize the definition of the triangle group W_{333} , explain the statement of Lemma 2.3, and work an example.
- (5) Do problem 1 on page 51.
- (6) You don't have to turn these in yet, but you might begin working on (3) and (5) on page 52.