

1. READING:

- (1) Read Section 3.10. Portions of this are assigned as presentations. Unless you are the one presenting the result, you need only skim the proofs.
- (2) Read (and internalize) Definition 8.2 (semi-direct product) on page 154 and the definition of wreath product on page 156. (It is very important you do this by Thursday.)

2. HOMEWORK:

- (1) Prove Lemma 3.10.
- (2) Shabab should be prepared to present the proof of Prop. 3.52, as well as Example 3.53 on Tuesday, April 10.
- (3) Yusheng should be prepared to present the proof of Lemma 3.56, Theorem 3.57, Lemma 3.58, and Corollary 3.59 on Tuesday, April 10..
- (4) Claire should be prepared to present the motivation, notation and definitions on pages 120 - 123, as well as the statement and proof of Lemma 6.4 on Tuesday, April 10..
- (5) Do problem 15 on page 98.
- (6) Do problem 20 on page 98.