This is notes for RC5.

CCP-05 is suggested.

Group definitions:

Mention the generialize product (close + associativity) not commutative necessary

Element can be everything!

Mention difference between

Mention Inverse/ identity -> abstract algebra system

Identity/Inverse : unique and exist

Left cancelable right cancelable

Mention how to prove a subgroup? (find the identity/closure)

Exericse 6. The order does matter

Cyclic Group:

Order: can be infinite

Verify the first proof of Euler’s Function’s Property

Symmetric Group

Slides is difficult -> basics

Element is permutations

even/odd number of transpositions: always decompose to 2 numbers

Composition: Right first!!! Demo!

Exercise 1.2 (123)(12) = (13) (13)(123)=(132)

Recite S\_3 !! A\_3 !!

S3: (12) (13) (23) (123) (132) e A3: (12) (23) (31) e