

### Math Learning flow chart

Pick a chapter/section: Scan through the main Definitions, Theorems, Propositions.

Work out the topics in the order they were presented for that Section.

Work out *each* definition, theorem, lemmas and proposition with proofs. Understand each step. Use your own words.

Complement with the suggested literature in case you do not understand something. Find different approaches to explain the concept

How is this connected with my previous knowledge?

Big-Big picture: Put all the concepts you learnt, the proofs, the examples and the exercises together in your mind, and make further connections. Which theorems/propositions etc. were used and which ones not

- Do the exercises for the correspondent Section. Make sure you understand all the intermediate steps and assumptions.
- At least 2 times to understand. 4 times for mastery.
- Add relevant results from the exercise to the corresponding place in the mind map

Work out the examples. Reproduce them without looking at your notes.

Make a mind map with the connections between definitions, theorems, corollaries. Make sure you note apart the assumptions.