

Group theory is not a prerequisite for this course. Therefore the homework for tonight acknowledges that many students need some time to study the basics of groups.

A. Read at least the first two sections (Groups and Homomorphisms) in the Groups tutorial on our course web site. The later sections will be assigned in a later homework. If you've studied group theory, then a skimming might be all you need, but skimming will at least focus your attention on the basic concepts that we'll be using. If you've never studied group theory, then I recommend that you examine the examples carefully, to see how they illustrate the definitions and theorems.

You might want to do the Groups tutorial exercises, but I am not asking you to hand them in. I am happy to discuss any of this material in office hours.

B. Section 52 Exercise 1, which is about star-convexity.

C. Section 52 Exercise 2, which is about the change-of-base-point homomorphism $\hat{\alpha}$, which in class I denoted $\alpha_{\#}$, because that notation is better.