These are the answers to the last problem on Homework #4 that I was given permission to share.
I hope they help all of you!

- The strategy that I have found most useful is collaborating on my homework with friends in the class. I have frequently read the book but it never seems to help. The class notes are more helpful so far than the book.

- When doing the homework I find it helps if I try to start or at least look at the problems before Tuesday’s class so I can figure out which ones I can do and which ones I can’t do yet. I then first try to answer all the questions by myself and if I still can’t figure out a problem I will collaborate with a classmate. At that point if I’m still struggling I will either ask my friend who has taken Transitions already for help or refer to the internet to find a similar problem and try to relate it to the homework problem.

- I find it best to first write what we know about the problem, then look over the class notes for hints on how to begin. After, I turn to the book for helpful propositions or theorems, and that concludes working on my own. The next step is to share ideas with another person or group, have one person go to office hours after collaborating, and then finalize answers once more before handing homework in.

- I have found that working with a peer has proven successful for completing the homework, as many people think differently and the problems can be approached from different vantage points. Combining multiple perspectives can result in a much quicker understanding of what must be done to prove the problems. Also, time away from the homework has yielded success as well, as I often think about a challenging problem walking to my dorm.

- I have found one good strategy for the homework and understanding the material is to attend office hours and ask questions about problems on which I’m confused. Asking questions to other students in the class helps too when I am stuck. Also, I find that talking to my friends (who aren’t in the class) about my basic thinking behind a problem is helpful. This way I can see if my logic seems correct and/or reasonable. And finally, doing the suggested problems helps me grasp concepts and methods on how to solve problems.

- I paid a lot of attention in class.

- When I do my homework, what works best for me is first trying the homework by myself. I try to match problems with examples we have done in class. Then I meet with a classmate and we share our ideas, helping each other when we understand it and talking through the ones we are stuck on. If we still need help, I go to office hours and then we meet up and discuss it again. To understand the material, I try to read the book and match up the books and our notes from class.
Thinking of simple examples or counterexamples first helps me better understand how I am going to write the proof. Also, going back through the definitions before I do the homework makes it easier to do the problems.

Firstly, I write down in my notebook almost everything discussed in class because I am always referring to the notes for my homework.

In general, when trying to prove something I always go back to the definitions to be sure my understanding of the terms is accurate/useful. I then either find a counterexample or use the direct proof because that is just how my mind works.

Read the book. Go over the proofs in the related chapter. Spread the work out over the week to give your brain time to absorb the info. Do the additional problems. Go to office hours if stuck.

For proofs, write what you need to prove and what is given. List what you know based on givens. Reference Theorems and Propositions related to what you are given.

When frustrated, take a break.