

ECE 174 Reading and Homework # 2 – Due Tuesday 10/24/2017

READING

Immediately begin reading Sections 4.1-4.5. Particularly ponder the “Summary of Rank” chart on page 218. You can *ignore* examples 4.3.6, 4.4.6, 4.4.7, 4.5.2, and 4.5.3. (Later, but *not now*, we will read 4.6. The remaining sections of Chapter 4 will *not* be covered.)

Remember, the Solutions Manual is provided with the text: if you do not find an answer in my answer sheet, be sure to check the solutions manual.

TIME MANAGEMENT: Homework 2 and the First Computer Assignment

Homework 2 is due about **2.5 weeks after homework 1**, on Tuesday, October 24, 2017, **in order to provide extra time** to do the reading, homework, *and* perform the (partial) *computer assignment tasks requested in problem 6 below*.

*You should start the assignments **immediately*** to ensure that you do not run out of time prior to the due-date. (There will also be a third homework assignment, to be announced shortly, that will be due on Thursday, November 9, 2017, just prior to the midterm exam.)

It is up to you to **not** have a last minute time-crunch – you have been given plenty of time to accomplish the tasks assigned to you, provided you start immediately and manage your time well.¹

COMPUTER ASSIGNMENT 1 - Due Tuesday 11/7/17

The fully completed First Computer Assignment, with a written report, will be due Tuesday, November 7, 2017.²

MIDTERM ANNOUNCEMENT - Tuesday 11/14/17

The midterm is scheduled for November 11, 2017. This is Tuesday of the seventh week of Fall Quarter, 2017. *The midterm cannot be delayed or postponed.*

HOMEWORK 2 - Due Tuesday 10/24/17

1. 4.1.1, 4.1.2, 4.1.8. Also prove $\mathcal{X} + \mathcal{Y}$ is a vector subspace of \mathcal{V} if \mathcal{X} and \mathcal{Y} are vector subspaces of \mathcal{V} .
2. 4.2.1, 4.2.2.
3. 4.3.1, 4.3.2.
4. 4.4.1, 4.4.2.
5. 4.5.1, 4.5.6.
6. Turn in Matlab code (that’s all for now!) showing that you have performed Steps 1-5 of the first computer assignment.

¹In the “real world”, on the job, this is how things are done, with there always being the chance that you will bump into your manager in the hall prior to the due date whereupon he/she will likely ask specific questions regarding how your task is getting along, expecting you to respond with a detailed description of your progress to date.

²**This is an absolute deadline** as the remainder of the quarter is needed to perform the second computer assignment.