

# Assignment 12 (8/18)

Subhadip Chowdhury

*This homework is due in class on Monday, 8/21. You may cite results from class as appropriate. Unless otherwise stated, you must provide a complete explanation for your solutions, not simply an answer. You are encouraged to work together on these problems, but you must write up your solutions independently.*

*You are encouraged to think about the problems marked with a (\*) if you have time, but you don't need to hand them in.*

Remember that you can always use the result of the previous assignment problems without proof to solve the new assignment problems.

## Problem 0★

Read section 6.3 and starting of 7.1. Note that we have skipped the discussion on adjoint of a matrix for now. We will continue with 7.1 in next class as well.

## Problem $\epsilon$ ★

Work out the True/False problems at the end of chapter 6.

## Problem $\delta$ ★

Make sure that you can solve all the problems from all 4 quizzes. I have uploaded them in the webpage as well.

## Problem 1

Problems 6.3.(2, 11, 22, 24, 27).

## Problem 2

Problems 6.2.(17, 20, 24). Note that it doesn't matter what basis you pick to calculate the matrix of the linear transformation.