

# Assignment 22 (11/22)

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*This homework is due at the beginning of class on **Wednesday** 11/29. 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★

Over the next week we will be covering different tests for convergence of a series and in particular how they apply to Taylor series. In particular we will be covering sections 11.(1, 2, 3†, 4†, 6, 7, 8, 10†). Only parts of the sections marked † will be covered. Also the results up to 11.8 will be given without proof.

## Problem 1

Problems 11.1.(23, 30, 43).

## Problem 2

Problems 11.2.(31, 68).

## Problem 2

Problems 11.3.(9, 24, 30, 44★).