

## PROBLEM SET 4

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### Problem List.

From the [course Lecture Notes](#) (any version on or after February 3rd):

- Chapter 4 Exercises: P4.4, P4.5, P4.6, P4.7

### Instructions.

During tutorial on **Monday, February 10th** your TA will randomly select one problem from the list above. You will have 15 minutes to write your solution to the problem. You may not use notes, a calculator, or any other resources when writing your solution. Your submission will be marked using the following rubric:

Points	Rubric
5	Solution is presented with clear justification that is logically complete and correct. May include minor typos and computational errors if they do not majorly impact the argument. No important steps are missing or assumed. All assumptions and special cases have been covered. All suggestions for improvement come under the category of “improvements for clarity” rather than “correcting logical errors”. Omission of details will be judged depending on context of the material, with simpler steps being acceptable for omission when covering more advanced topics.
4	Solution is close to full and complete, but contains either a computational error or an error in reasoning that majorly impacts the argument. This score is also appropriate for solutions that are mathematically sound but confusingly written.
3	Solution is incorrect, but understanding of the problem was demonstrated and student provided a clear outline of a potential approach with information about where they got stuck <b>-or-</b> solution is correct but justification is insufficient or so confusingly written that it cannot be followed with a reasonable amount of effort.
2	Solution is incorrect, but student demonstrated understanding of the problem <b>-or-</b> solution is correct and student did not provide justification for their answer.
1	Solution is incorrect and student did not demonstrate understanding of the problem, but did demonstrate some knowledge of relevant material.
0	Solution is incorrect or incomplete, and there was no demonstration of knowledge of relevant material.