Problem Set 1*

Your Name[†]

Instruction

- To compile a LaTeXfile, you can use either the pdflatex command on your local machine or online tools like Overleaf. If you're new to LaTeXmake some effort to learn how to use it properly especially regarding math environments like align.
- Create a new blank file (e.g., hw1.tex). Copy <u>hw-template.tex</u> into it. Don't change on this file directly, as you might want to reuse it.
- Delete this instruction part.
- Change the author info: name, email, netid.
- Change the homework info: name, due date, and students you worked with for this homework.
- For the coding part, you need to write your own code.
- When you finish your homework, download the pdf, and rename it before submitting to Canvas: firstname-lastname-soll.pdf.
- The supplemented <u>header.tex</u> includes some useful packages and commands that make it easy to write things like $\underset{x \sim p}{\mathbf{E}} [-\log p(x)]$. Feel free to modify and define your own commands.

Problem 1

Problem 2

Problem 3

^{*}Due: September 23, 2021, Student(s) worked with: Collaborators

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