

# Homework 6

Week 7

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*Collaborators.* ChatGPT (for L<sup>A</sup>T<sub>E</sub>X styling and grammar checking)

## 1 Law of Large Number (LLN)

**Problem 1.** Here's problem statement. You can insert sub-problem

- a) Here's sub-problem a.
- b) Here's sub-problem b.
- c) Here's sub-problem c.

**Solution.** The solution goes here.

## 2 Central Limit Theorem (CLT) and Joint Distribution

**Problem 2.** Here's problem statement. You can insert sub-problem

- a) Here's sub-problem a.
- b) Here's sub-problem b.
- c) Here's sub-problem c.

**Solution.** The solution goes here.

### TO SUBMIT

**Problem 16.** Here's the problem statement for **MANDATORY** problem.

**Solution.** Here's the solution for the **MANDATORY** problem.  
ABC.

*Proof.* Here's the proof for the **MANDATORY** problem.