

**Stat 310A/Math 230A Theory of Probability**

## Homework 6

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*Due on November 13, 2019*

- **(Important)** Return all assignments with a cover page stapled to the front of the work that details only basic information: name, quarter, course.
- Solutions should be complete and concisely written.
- You are welcome to discuss problems with your colleagues, but should write and submit your own solution.
- In some cases, multiple homework options will be proposed (and indicated as ‘Option 1’, ‘Option 2’, etc.). You are welcome to work on all the problems proposed (solutions will be posted), but should submit only those corresponding to one ‘Option’.

### **Exercises on the strong law of large numbers and central limit theorem**

Solve Exercises [2.3.13], [2.3.23], [2.3.25], [3.1.11] in Amir Dembo’s lecture notes.

Solutions will be provided for exercis [3.1.10] (do not return this!).