

# STAT 422/722 Spring 2016 Homework #1

Professor Adam Kapelner

Due *in class* January 24/25

(this document last updated Wednesday 11<sup>th</sup> January, 2017 at 7:27pm)

## Instructions and Philosophy

The problems below are color coded: **green** problems are considered *easy* and marked “[easy]”; **yellow** problems are considered *intermediate* and marked “[harder]”, **red** problems are considered *difficult* and marked “[difficult]” and **purple** problems are extra credit. The *easy* problems are intended to be “giveaways” if you went to class. Do as much as you can of the others; I expect you to at least attempt the **purple** problems.

This homework is worth 100 points but the point distribution will not be determined until after the due date. See syllabus for the policy on late homework.

Up to 10 points are given as a bonus if the homework is typed using L<sup>A</sup>T<sub>E</sub>X. Links to installing L<sup>A</sup>T<sub>E</sub>X and the programs for compiling L<sup>A</sup>T<sub>E</sub>X is found on the syllabus. You are encouraged to use [overleaf.com](http://overleaf.com). If you are handing in homework this way, (1) upload `hwxx.tex` and `preamble.tex`, (2) read the comments in the code as there is one line to comment out, (3) you should replace my name with your name and (4) your section. If you are asked to make drawings, you can take a picture of your handwritten drawing and insert them as figures or leave space using the “\vspace” command and draw them in after printing or attach them stapled.

The document is available with spaces for you to write your answers. If not using L<sup>A</sup>T<sub>E</sub>X, print this document and write in your answers. You must print after downloading, not from Google Chrome viewer. **I do not accept homeworks not on the correctly paginated printout of this document.** Write your name and section below (A or B).

You may collaborate, but hand in your own copy with your own wording. See the syllabus for more information.

NAME: \_\_\_\_\_ SECTION (A or B): \_\_\_\_\_