Homework 11

S320/520

Upload your answers as a PDF file or Word document through the Assignments tab on Canvas by 4pm, Thursday 3rd December.

Answers must be in your own words. Show working and include all graphs you are asked to draw (in R.)

- 1. Trosset chapter 13.4 exercise 1
- 2. Trosset chapter 13.4 exercise 3
- 3. Trosset chapter 13.4 exercise 10
- 4. Trosset chapter 13.4 exercise 11
- 5. Trosset chapter 14.6 exercise 3. You can get the data from Prof. Trosset's webpage: http://mypage.iu.edu/~mtrosset/StatInfeR.html
- 6. (Compulsory for S520, optional for S320.) Trosset chapter 13.4 exercise 6. NOTE: From the book errata, the correct formula for the Poisson probability mass function is

$$P(X = x) = \frac{\lambda^x \exp(-\lambda)}{x!}$$

This can be calculated in R as dpois(x, lambda).