Talis Biomedical Statistics Course - Homework 6 Due: 22 January 2020 9:00 AM

Name: [your first and last name]

Collaborators: [list all the people you worked with]

Date: [date of submission]

By turning in this assignment, I agree by the **Stanford honor code** and declare that all of this is my own work.

The exercises can be found in the DeGroot & Schervish's textbook, available here.

Problem 1

Section 7.5 Exercise 2

Problem 2

Section 7.5 Exercise 3

Problem 3

Section 7.5 Exercise 6

Problem 4

- (a) Section 7.5 Exercise 9
- (b) Suppose that X_1, \ldots, X_n form a random sample from a distribution with the pdf given in Part (a). Find the MLE of $e^{-1/\theta}$. n.b. you'll want to read Section 7.6 before answering this part.

Problem 5

Section 7.6 Exercise 3

Problem 6

Section 7.6 Exercise 4