## Assignment #11

## Nonparametric Regression and Additive Models

**READING** - Faraway Chapters 14 and 15

0. (5 pts) Name

1. (7 pts) Faraway Chapter 13 Exercise 2

- 2. (7 pts) A client is interested in predicting the number of Canada thistle seeds that germinate under different conditions. She collects seeds from 20 different locations and randomly assigns a proportion of them from each location to each of the conditions. Because she randomly chose these locations, she is debating between a GEE and GLMM analysis. Describe the differences between these two approaches and how she should choose between them.
- 3. (7 pts) Faraway Chapter 14 Exercise 1
- 4. (8 pts) Faraway Chapter 14 Exercise 2
- 5. (8 pts) Faraway Chapter 15 Exercise 1
- 6. (8 pts) Faraway Chapter 15 Exercise 3