## STAT 205 Homework 4 (Due: Monday, October 30, 2017)

Instructor: Shiwen Shen Total Points: 70

- 1. Exercise 7.2.17 in page 240. Use R to do the two-sided t test. Write out the null and alternative hypotheses clearly, and interpret your conclusion properly. Don't forget to check the normality with QQ-plots. (20)
- 2. Exercise 7.3.4 in page 248. (10)
- 3. Exercise 7.10.8 in page 299. Use R, write out the null and alternative hypotheses, and make interpretation. (20)
- 4. Exercise 8.4.5 in page 330. (Hint: "directional alternative" means we want to test whether valproate would significantly decrease the overall numbers of minor seizures.) (10)
- 5. Exercise 9.2.6 in page 365. Use R. (10)