Stat GR 52015, Fall 2017

Assignment #7: Due November 20

- 1. Chapter 8, problem 6.
- 2. Chapter 8, problem 42.
- 3. Chapter 8, problem 43.
- 4. Chapter 10, problem 5.
- 5. Chapter 10, problem 9, a, b, c, d, g.
- 6. Consider linear regression model of y on covariates $x_1, x_2, ..., x_p$. Let $\hat{\beta}$ be the least-squares estimate and let $\hat{\beta}_{(i)}$ be the estimate with observation i removed. Show that $\hat{\beta} = \hat{\beta}_{(i)}$ if and only if observation i lies precisely on the fitted regression line.