

# Homework 5

Due: Thursday 3/26/20 by 8:30am

1. Problem 2.10 from the .pdf version of the textbook.
2. Problem 2.11 from the .pdf version of the textbook.
3. Problem 2.28 from the .pdf version of the textbook, parts (a)-(b).
4. Problem 2.31 from the .pdf version of the textbook, parts (a)-(b).
5. Problem 3.2 from the .pdf version of the textbook. The idea is to make an example plot of the residuals  $e_1, \dots, e_n$  against the predictors  $X_1, \dots, X_n$ , that depicts what you might expect to see under the circumstances described by each part of the problem.
6. Problem 3.7 from the .pdf version of the textbook, parts (a)-(d). You only need to do the first part of (d), i.e. construct a normal probability plot of the residuals. Note that this will require a bit of material that we will cover Tuesday 3/10.
7. Problem 3.8 from the .pdf version of the textbook, parts (a)-(d). You only need to do the first part of (d), i.e. construct a normal probability plot of the residuals. Note that this will require a bit of material that we will cover Tuesday 3/10.