

## Homework 9

*Due 4/22/25 by end of the day*

Directions: Reading Chapter 13 will help with this assignment. One hint: it can be helpful (though not necessary) to redo the problem we did in class and then do the homework problem to make sure all of your equations are set up correctly.

- 1) Do problem 13.1 in the book (problem is the same in both versions of the text)
- 2) Do problem 13.2 in the book (13.3 in 7<sup>th</sup> edition) by hand (write out the equations and explain how you calculate each term on a sheet of paper, but you can perform the calculations using Excel). Include main effect and interaction plots/calculations as well as assumption checking plots/calculations, and then perform the same analysis (and the same plots) in Minitab. The normality plot can be made using Minitab (no need to do a normality plot by hand, but the other ones should be made in Excel as well as Minitab).