

# Homework 11

*Math 315, Fall 2019*

*Due 5 November by 4:00 p.m.*

*Instructions:* Complete the following problem and submit it by 4 p.m. on the due date. Please make sure that your solution is neatly written, clearly organized, and stapled (if there are multiple pages). You may complete derivations by hand, but any R work should be completed using R Markdown to render the final write up. You may hide the plotting code chunks, but you need to include your JAGS/R code where you fit your models.

*BSM* Chapter 3 exercises 15, 16, and Chapter 4 exercise 2 a-c