

# Problem Sets

Econ 103

## **Part I – Suggested Problems from the Textbook**

Chapter 1: 3, 5, 9, 11, 13

Chapter 2: 1, 7, 8, 9bc, 13, 14, 16, 21, 23, 33, 35, 37, 41

Chapter 3:

Chapter 4:

Chapter 5:

Chapter 6:

Chapter 7:

Chapter 8:

Chapter 9:

Chapter 11:

Chapter 12:

Chapter 13:

Chapter 14:

## **Part II – R Tutorial**

### **Chapter 1 and Basics of R**

Complete R Tutorial 1 on the course website:

<https://mallickhossain.wordpress.com/econ-103/>

This might seem like a long intro to R, but we need to get around the R learning curve quickly so you can get to the fun part, which is using R on real data! This should also serve as a useful reference for a majority of the tasks you will be expected to do in R.

## Chapter 2

### Part III – Additional Problems

1. You are a partner at Shady-Sleazy Consulting, LLC (motto: “Everything you want to hear and nothing you don’t!”<sup>TM</sup>).
  - (a) You have been hired by a large investment bank to help them convince their clients that they should sell Google stock. Create a chart for their slide deck that supports this view. Making it in Excel is fine, though I encourage you to try in R (using the “quantmod” package makes it easy to get stock data)
  - (b) You have been hired by the investment bank’s rival as well and they want to convince their clients that they should invest more in a certain stock. As a partner of Shady-Sleazy Consulting, LLC, you have become adept at cutting corners, so you want to use the same data you’ve already collected. Create a chart that will convince their clients they should buy more Google stock.