

APMA 1650 – HOMEWORK 8

Note: The problem sections/numbers refer to the ones in the book *Mathematical Statistics with Applications* (7th edition) by Wackerly, Mendenhall, and Schaefer.

Section 7.2: 7.9(a)(b)(c), 7.11, 7.15, 7.21, 7.30(a)

Section 7.3: 7.42, 7.43, 7.45, 7.58

Note: In 7.58, the book uses U_n where I use Z_n in the lecture

Note: Just so we're on the same page, below is what the problems start with/are about. If the problems in your textbook don't correspond to the ones below, look around the section and find the problem with that content, the problem numbers might just have been reshuffled.

7.9(a)(b)(c) Refer to Example 7.2

7.11 Forester problem

7.15 $\bar{X} - \bar{Y}$

7.21 Refer to Exercise 7.13

7.30(a) Suppose that Z has a standard normal distribution

7.42 Fracture strength

7.43 Anthropologist

7.45 Workers

7.58 "Suppose that X_1, X_2, \dots "