

Homework #2

Due on 9/9/2026, Wednesday, before class.

1. Exercise 4.4.3 on page 263

4.4.3. Consider the sample of data (data are in the file `ex4.4.3data.rda`):

13	5	202	15	99	4	67	83	36	11	301
23	213	40	66	106	78	69	166	84	64	

- (a) Obtain the five-number summary of these data.
- (b) Determine if there are any outliers.
- (c) Boxplot the data. Comment on the plot.

2. Exercise 5.3.11 on page 348 (Graduate students only)

5.3.11. We know that $\bar{X}$ is approximately $N(\mu, \sigma^2/n)$ for large n . Find the approximate distribution of $u(\bar{X}) = \bar{X}^3$, provided that $\mu \neq 0$.