HW 08 - Spring 2026

Assessing Normality

Due date: See Canvas Announcements

General Instructions

1). This is an individual assignment. You may **only** discuss it with your instructor!

2). HW should be professional looking. If your handwriting is not legible, consider typing it. Use equation editor in Word found at the right top corner of the menu under the "Insert" Tab.

3). **PDF Copy** of HW assignments are due at the beginning of the class on the due date to be **Uploaded on Canvas**.

4). Turn in a **SINGLE file** with all HW components.

5). Show your complete work to receive credit. Correct numerical answers not accompanied by any work/explanation will not receive any credit.

6). **Do not copy the questions along with your answers.** Just turn in the answers.

7). Graphs and Codes created with **R** **Must** be copied into word, printed to pdf and combined with the rest of the HW. **ABSOLUTELY NO SCREEN SHOTS.**

8). **CAN ONLY USE R CODES PROVIDED IN THE LECTURE NOTES AND/OR HW.** Results obtained with Codes not included in the above two sources will be considered wrong and receive 0 points.

9). Use appropriate notation and symbols.

1). Using **R** and each of the datasets below, a) construct an appropriate QQPlot, b) use the QQPlot to determine whether the data can be coming from a normal distribution or not , and c) provide the codes you used to create the graph. Clearly justify your answer. **Make sure to Include the graph in your reposne either by drawing it or copying it form the appropriate software and pasting it into a word document.**

(a)

747	−1	−17	555	125	169	−96	−53	614
488	205	514	457	505	568	551	558	−203

(b)

311	312	278	278	271	313	308	297	252
297	311	255	248	301	247	286	261	252

(c)

323	304	321	321	321	301	306	323	331	316
319	312	329	309	311	328	335	316	317	

(d)

351	348	352	351	353	353	357	353	341	311
343	365	352	311	316	346	308	346	332	332