Homework 4 Part 2 Grading Rubric

As is the case with any graded assignment, the rubric below is non-exhaustive, and does not include guidelines for every possible answer/situation. With that in mind, we encourage students to use the rubric as a guide and use their best judgement when awarding credit or partial credit to conforming solutions. If a situation does arise where you are unable to reconcile a given solution, you can always reach out to instructors via private post to ask for clarification and guidance. Remember peer reviews are due in Vocareum on May 2nd @ 23:59:59 Eastern.

Question No.	**Total Pts.**	**Ratings**		
Question 1A	3 points	0 Points: Solution is entirely incorrect. Both formula and result are incorrect.	2 Points: Student uses correct calculation formula but has the wrong utilization.	3 Points: Both code and reported utilization are correct.
Question 1B	3 points	0 Points: Solution is entirely incorrect. Both formula and result are incorrect.	2 Points: Student uses correct calculation formula but has the wrong time.	3 Points: Both code and reported time are correct.
Question 1C	3 points	0 Points: Solution is entirely incorrect. Both formula and result are incorrect.	2 Points: Student uses correct calculation formula but has the wrong time.	3 Points: Both code and reported time are correct.
Question 1D	4 points	0 Points: Solution is entirely incorrect both formula and graph is incorrect.	2 Points: Correct formula is identified, but graph is incorrect.	4 Points: Formula and graph is correct.
Question 1E	3 points	0 Points: Solution is entirely incorrect. Both formula and result are incorrect.	2 Student has used the correct formula and shows that the probabilities are additive.	3 Points: The code, formula and results are the correct.

Question 1F	4 points	0 Points: Solution is entirely incorrect both formula and graph is incorrect.		2 Points: Correct formula is identified, but graph is incorrect.	4 Points: Formula and graph is correct.
Question 2A	8 points	0 points: None of the calculations is correct		Partial credit: each correctly calculated parameter gets 2 points	8 points: correctly calculated all parameters.
Question 2B	8 points	0 points: No charts are plotted	4 points: X-bar and R-Bar charts are plotted.	6 points: Both charts are plots with UCL and LCL	8 points: Both charts are plotted with UCL and LCL, correctly conclude that no assignable cause of variation is observed.
Question 2C	4 points	0 points: No correct calculations of Cp or Cpk.		2 points: Get either Cp or Cpk correct, or made the correct conclusion about specification requirement.	4 points: Both Cp and Cpk are correct, and correctly concluded that the process does not meet the required specification.
Question 3A	4 points	0 points: No correct calculations for power per minute.	2 points: The formulas are correct, but the incorrect variable was used.	4 points: The reported value is correct (either average daily power per minute or average power per minute).	

Question 3B Note: The use of na.omit or xts package is not required as long as the resulting model is successful.	4 points	0 points: The incorrect model was created, no plot provided, no explanation provided.	2 points: No plot or explanation was provided.	3 points: An ses() model was created using an alpha of 0.35 and an h of 100 of any variable. Plot of forecast is provided. Text of explanation is provided.	4 points: An ses() model was created using an alpha of 0.35 and an h of 100 of the daily power per minute or average power per minute. Plot of forecast is provided. Text of explanation is provided.
Question 3C	8 points	0 points: No values reported for tracking signal.	3 points: Tracking signals not provided for all three models.	6 points: Formulas are correct, but the wrong models were tested.	8 points: Correct tracking signals provided for three models using alphas of 0.05, 0.35, and 0.75.
Question 3D	4 points	0 points: No interpretation or incorrect interpretation of value and sign provided.		2 points: Interpretation of either value, sign, or model fit is correct.	4 points: Correct interpretation of value and sign of

Note: Since 3D is a continuation of 3C, points awarded are not dependent on a correct value but on a correct interpretation.				tracking signal is provided for three models, and answer to 'good fit' question.