

Midterm Exam: Due Thurs 10/24 by 1:50pm ET

● Graded

Student

Ivan Wang

Total Points

37 / 60 pts

Question 1

Problem 1

6 / 8 pts

✓ - 2 pts errors in both "meet specs" probabilities indicated on paper

Question 2

Problem 2

7 / 8 pts

✓ - 1 pt some minor errors in conclusions as indicated on paper

Question 3

Problem 3

21 / 30 pts

✓ - 4 pts parts (d)-(g): using $L = 3$ in all charts

✓ - 2 pts part (a): process mean should be estimated using $\bar{\bar{x}}$

✓ - 2 pts parts (d)-(e): using the wrong value of L in the calculations; calculated LCL for R -chart is incorrect based on your values.

✓ - 1 pt parts (f)-(g): wrong value of L used in the calculation of the limits

Question 4

Problem 4

3 / 14 pts

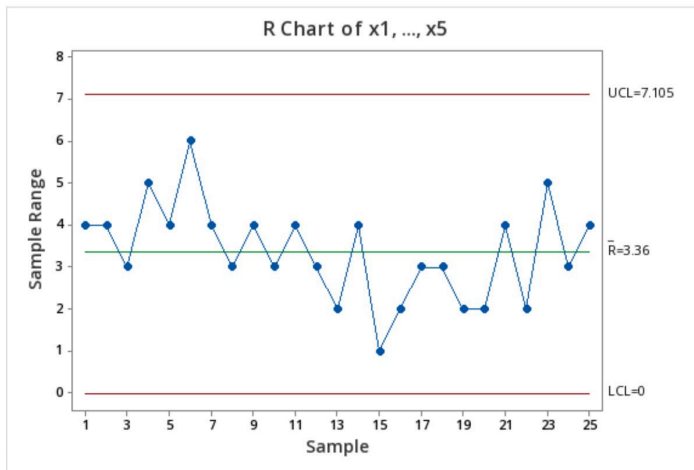
✓ - 3 pts part (a): (i) using st dev of \bar{x} rather than "process st dev". (ii) using control limits instead of specification limits.

✓ - 6 pts parts (b), (d): nothing submitted

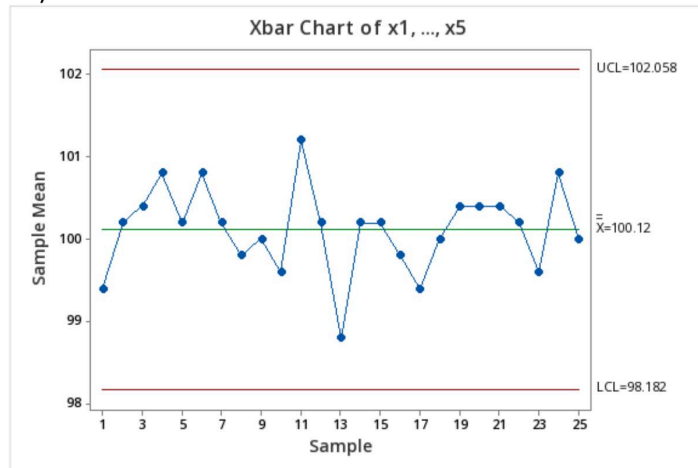
✓ - 2 pts part (c): on the right track, except supposed to use your control limits from problem 3(e). Need to finish the calculation of the z -scores, and then get the area outside of them.

Questions assigned to the following page: [1](#), [3](#), and [2](#)

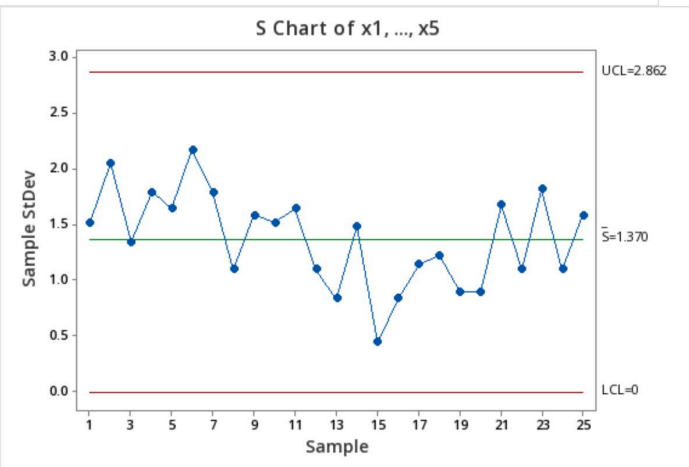
3d)



3e)



3f)



Question assigned to the following page: [4](#)

3g)

