2020W A33 Quiz 1 T10 Rubric

[Q1]

3 marks - finding A

3 marks - finding A^T

4 marks - computing (A^T)A

(-0.5 for every computation mistake, up to a max of -1.5)

[Q2]

1 full mark - reducing the matrix to a generalized upper triangular form

for each of the 3 scenarios

3 full marks - generalizes the values that a, and b are allowed, or not allowed to have

2.5 part marks - generalizes the values, but one of them is incorrect

2 part marks - not generalized, but values are correct

1.5 part marks - does not provide any values, but describes what must occur to achieve a certain type of solution

[Q3]

8 full marks - correctly reduces the matrix

7 part marks - general reduction method is correct, gets 2 free vars, but calculation error

7 part marks - general reduction method is correct, gets 1, but not 2 free variables

6 part marks - general reduction method is correct, but does not get infinite solutions at all

2 full marks - uses parametric form to display the solution(does not matter if solution is correct)

1 part mark - tries to use parametric form but does not turn free variables into parameters to be any real number