

### 2020W A33 Quiz 3 T11 Rubric

[Q1]

8 marks - calculate det, x can be anything

7 marks - 1 minor mistake, general form on calculating the determinant is correct, provides values for  $x = \dots$

6 marks - more than 1 mistake, general form on calculating the determinant is correct, does not provide values for  $x = \dots$

[Q2a,b,c]

3 marks - used correct properties to arrive at the final answer

1.5 to 2.5 marks - depending on how far you got, and how relevant your answer is

1 mark - attempted question with some degree of thinking, even if its completely wrong

[Q3]

6 marks - correct process and answer

5.5 marks - missed a minus sign somewhere

5 marks - one determinant property error

4.5 marks or below - more than one determinant property error

[Q4a,b]

all or nothing

[Q4c]

3 marks - demonstrates first and second row is the same or mentioned trivial solution then justification or uses a contradiction (ie. assume A is invertible, then successfully breaks the given conditions)

1.5 marks - mentioned we are trying to find  $\det(A) = 0$