

Quiz 9

This quiz is graded out of 10 marks. No books, calculators, notes or cell phones are allowed. You must show all your work, the correct answer is worth 1 mark the remaining marks are given for the work. If you need more space for your answer use the back of the page.

Question 1.

- a. (5 marks) Solve by Cramer's rule

$$\begin{array}{rcl} 7x & + & 5y = 9 \\ 5x & + & 7y = 3 \end{array}$$

- b. (5 marks) Find the matrix A such that

$$(A^t - 5I)^{-1} = \begin{bmatrix} 0 & 1 \\ -1 & 0 \end{bmatrix}$$

where I is the 2×2 identity matrix.