

Quiz 8

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. §2.2 #26 (5 marks) Evaluate the determinant

$$\det \left(\begin{bmatrix} a & b & c \\ 2d & 2e & 2f \\ g+3a & h+3b & i+3c \end{bmatrix} \right)$$

given that

$$\det \left(\begin{bmatrix} a & b & c \\ d & e & f \\ g & h & i \end{bmatrix} \right) = -6$$

Question 2. §2.2 #15 (5 marks)

$$\begin{bmatrix} 2 & 1 & 3 & 1 \\ 1 & 0 & 1 & 1 \\ 0 & 2 & 1 & 0 \\ 0 & 1 & 2 & 3 \end{bmatrix}$$