

Quiz 7

This quiz is graded out of 8 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. §1.7 #47

Prove: If $A^T A = A$, then A is symmetric and $A = A^2$.

Question 2. Problems for 201-NYC-05 Science #2.2

Let B be a 3×3 matrix where $\det(B) = 3$. Find $\det(2B + B^2 \text{adj}(B))$.