

MA 262 Section 596/597 Quiz 6

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Mar. 3, 2023

Problem 1. Write your name, quiz number, and section number at the top of a full sized blank sheet of paper.

Problem 2. Compute the determinant of the matrix

$$\begin{pmatrix} 9 & 0 & 0 & 5 \\ 5 & 7 & 3 & -5 \\ 2 & 0 & 0 & 0 \\ 8 & 3 & 1 & 5 \end{pmatrix}.$$

Problem 3. Solve the linear system $au + bv + cw = 0$ to determine if the vectors u , v and w are linearly independent.

$$u = (2, 0, 3) \quad v = (7, 5, -3) \quad w = (4, -1, 1)$$