

MATH 240 QUIZ 4

Name: _____

Question:

Compute the determinant of matrix A , where

$$A = \begin{bmatrix} 1 & 2 & 3 & 4 \\ 5 & 6 & 7 & 8 \\ 8 & 7 & 6 & 5 \\ 4 & 3 & 2 & 1 \end{bmatrix}.$$

Solution:

After applying row operations, one can find that A is not of full rank (in fact its rank is 2), thus $\det A = 0$.