

Math 220 Assignment

November 7, 2001

Due Friday, November 9

1. Find the determinant of the matrix

$$\begin{pmatrix} 1 & 2 & -4 & 1 \\ -2 & 10 & -1 & 1 \\ 1 & 0 & 1 & 5 \\ 2 & -9 & 1 & 0 \end{pmatrix} .$$

2. What is the determinant of the 4×4 matrix

$$\begin{pmatrix} a & b & c & d \\ 0 & e & f & g \\ 0 & 0 & h & i \\ 0 & 0 & 0 & j \end{pmatrix} ?$$

3. Find an ordered list of *elementary* 3×3 matrices whose matrix product is the matrix

$$\begin{pmatrix} 2 & 2 & 1 \\ -2 & 1 & 2 \\ -1 & 2 & -2 \end{pmatrix} .$$

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<http://math.albany.edu:8000/math/pers/hammond/course/mat220/assgt/la011107.html>