Name:
Problem 1: Compute the determinant of the following matrix:

$$
\left(\begin{array}{cccc}
4 & 0 & 1 & 2 \\
0 & 0 & 1 & 0 \\
1 & 3 & -1 & 0 \\
2 & 0 & 0 & 2
\end{array}\right)
$$

