Quiz 
$$#4$$

1. Find the determinant	$\begin{vmatrix} 2 \\ 1 \\ 1 \\ 2 \end{vmatrix}$	$3 \\ 2 \\ 2 \\ 4$	$     \begin{array}{c}       0 \\       1 \\       0 \\       0     \end{array} $	$5 \\ 9 \\ 3 \\ 1$
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2. If A is an  $n \times n$  matrix with |A| = 3, find the determinants of the following matrices:

- a. B is the matrix we get by swapping the first two rows of A. |B| =
- b. C is the matrix we get by scaling the first row by 2 and the second row by 3.  $\left|C\right|$  =
- c. D is the matrix we get by adding 3 times the second row to the fourth row.  $\left|D\right|$  =

3. Find the eigenvalues of the matrix  $\begin{bmatrix} 2 & 1 \\ 1 & 2 \end{bmatrix}$ .