Due: 4/1/19

This is a two-stage quiz. You will receive this back with each question graded pass/fail in our next class meeting. You have until the date specified above to submit corrections for partial credit.

1. (5 points) Compute the determinant of

$$A = \begin{bmatrix} 4 & 1 & 2 \\ 4 & 0 & 3 \end{bmatrix}$$

det (A) =
$$\begin{vmatrix} 4 & 1 & 2 \\ 4 & 0 & 3 \\ 3 & -2 & 5 \end{vmatrix} = -1 \begin{vmatrix} 4 & 3 \\ 3 & 5 \end{vmatrix} + 6 \begin{vmatrix} 4 & 2 \\ 3 & 5 \end{vmatrix} + 2 \begin{vmatrix} 4 & 2 \\ 4 & 3 \end{vmatrix}$$

2. (5 points) Compute the determinant of

$$A = \begin{bmatrix} 1 & -1 & -3 & 0 \\ 0 & 1 & 5 & 4 \\ -1 & 0 & 5 & 3 \\ 3 & -3 & -2 & 3 \end{bmatrix}$$
- Recall (a) - replacement
$$A = \begin{bmatrix} 1 & -1 & -3 & 0 \\ -1 & 0 & 5 & 3 \\ 3 & -3 & -2 & 3 \end{bmatrix}$$
- Recall (a) - replacement
$$A = \begin{bmatrix} 1 & -1 & -3 & 0 \\ 0 & 1 & 5 & 4 \\ 0 & 1 & 5 & 4 \end{bmatrix}$$
- Recall (a) - replacement
$$A = \begin{bmatrix} 1 & -1 & -3 & 0 \\ 0 & 1 & 5 & 4 \\ 0 & 0 & 7 & 3 \end{bmatrix}$$
- Ve not know scaling or interchange here.
$$A = \begin{bmatrix} 1 & -1 & -3 & 0 \\ 0 & 1 & 5 & 4 \\ 0 & 0 & 7 & 3 \end{bmatrix}$$
- Us not know scaling or interchange here.
$$A = \begin{bmatrix} 1 & -1 & -3 & 0 \\ 0 & 1 & 5 & 4 \\ 0 & 0 & 7 & 3 \end{bmatrix} = \begin{bmatrix} 1 & -1 & -3 & 0 \\ 0 & 1 & 5 & 4 \\ 0 & 0 & 7 & 7 \end{bmatrix}$$

$$A = \begin{bmatrix} 1 & -1 & -3 & 0 \\ 0 & 1 & 5 & 4 \\ 0 & 0 & 7 & 7 \end{bmatrix} = \begin{bmatrix} 1 & -1 & -3 & 0 \\ 0 & 1 & 5 & 4 \\ 0 & 0 & 7 & 7 \end{bmatrix} = \begin{bmatrix} 1 & -1 & -3 & 0 \\ 0 & 0 & 7 & 7 \\ 0 & 0 & 0 & -4 \end{bmatrix}$$

$$A = \begin{bmatrix} 1 & -1 & -3 & 0 \\ 0 & 1 & 5 & 4 \\ 0 & 0 & 7 & 7 \end{bmatrix} = \begin{bmatrix} 1 & -1 & -3 & 0 \\ 0 & 0 & 7 & 7 \\ 0 & 0 & 0 & -4 \end{bmatrix}$$

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$$A = \begin{bmatrix} 1 & -1 & -3 & 0 \\ 0 & 1 & 5 & 4 \\ 0 & 0 & 7 & 7 \end{bmatrix} = \begin{bmatrix} 1 & -1 & -3 & 0 \\ 0 & 0 & 7 & 7 \\ 0 & 0 & 0 & -4 \end{bmatrix}$$

$$A = \begin{bmatrix} 1 & -1 & -3 & 0 \\ 0 & 1 & 5 & 4 \\ 0 & 0 & 7 & 7 \end{bmatrix} = \begin{bmatrix} 1 & -1 & -3 & 0 \\ 0 & 0 & 7 & 7 \\ 0 & 0 & 0 & -4 \end{bmatrix}$$

$$A = \begin{bmatrix} 1 & -1 & -3 & 0 \\ 0 & 0 & 7 & 7 \\ 0 & 0 & 7 & 7 \end{bmatrix} = \begin{bmatrix} 1 & -1 & -3 & 0 \\ 0 & 0 & 7 & 7 \\ 0 & 0 & 0 & -4 \end{bmatrix}$$