

Quiz 4 Lyell Read

~~8/25 8/27 8/28~~

4/23/2019

find $\det \begin{pmatrix} -2 & 5 & 4 \\ 5 & 3 & 1 \\ 1 & 4 & 5 \end{pmatrix} \xrightarrow{1+2(3)} \begin{pmatrix} 0 & 13 & 14 \\ 5 & 3 & 1 \\ 1 & 4 & 5 \end{pmatrix}$

~~\rightarrow~~ $\begin{pmatrix} -2_{11} & 5_{12} & 4_{13} \\ 5 & 3 & 1 \\ 1 & 4 & 5 \end{pmatrix}$

unk sign

$15 - 4$

ad-bc

$\frac{25}{10} - 1$

$-2 \cdot \cancel{\text{sign}} \cdot \det \begin{pmatrix} 3 & 1 \\ 4 & 5 \end{pmatrix} \quad \& \quad -5 \cdot \cancel{\text{sign}} \cdot \det \begin{pmatrix} 5 & 1 \\ 1 & 5 \end{pmatrix}$

$+ 4 \cdot \cancel{\text{sign}} \cdot \det \begin{pmatrix} 5 & 3 \\ 1 & 4 \end{pmatrix}$

$\begin{vmatrix} (1+i) \\ -1 \end{vmatrix} = \text{sign}$

$20 - 3$

$-2(15-4) - 5(25-1) + 4(20-3)$

$\begin{array}{r} 24 \\ 5 \\ \hline 120 \end{array} \quad \begin{array}{r} 20 \\ 17 \\ 4 \\ \hline 68 \end{array}$

$-2(11) - 5(24) + 4(17)$

$-22 - 120 + 68$

$\begin{array}{r} 68 \\ -22 \\ \hline 46 \end{array}$

$-120 + 46$

$\boxed{-74}$

$\begin{array}{r} 120 \\ -46 \\ \hline 074 \end{array}$