ποράδοση εως 24-03-21 ώρο 2200

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## HOKNEN 1

$$-\frac{26 \cdot 16}{620 \cdot 60} = \frac{72 - 17}{22 - 322} = \frac{2012}{6660} = \frac{53 - 53 - 621}{1436168} = \frac{200}{1436168} = \frac{200}{14$$

=> 
$$2 | \frac{6}{36} | \frac{24}{168} | + 0 - 0 = 2 | \frac{6}{36} | \frac{24}{168} |$$

(v ièles apprintes des det(A)=288/ to onois Enchandeire au 600 Octore (Eine askhshl.jpg)

Aloxnon 2

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

a) 
$$det(B) = \begin{vmatrix} 0 & 1 & 2 & 2 \\ 3 & 0 & 1 & 2 \\ 2 & 3 & 0 & 1 \\ 1 & 2 & 3 & 0 \end{vmatrix}$$
  $= 23 - 252 \begin{vmatrix} 0 & 1 & 0 & 3 \\ 2 & 3 - 6 & 1 \\ 1 & 2 & 3 & 0 \end{vmatrix}$   $= 23 - 61$ 

$$\begin{vmatrix} 3 & 0 & 1 & 2 \\ 2 & 3 - 6 - 8 \\ 1 & 2 - 1 - 6 \end{vmatrix} = 0 \cdot \begin{vmatrix} 3 & 1 & 2 \\ 3 & -6 - 8 \\ 1 & 2 - 6 - 6 \end{vmatrix} - 1 \cdot \begin{vmatrix} 3 & 1 & 2 \\ 2 & -6 - 6 \end{vmatrix} + 0 \begin{vmatrix} 2 & 3 - 8 \\ 1 & 2 - 6 \end{vmatrix} - 0 \begin{vmatrix} 3 & 0 & 1 \\ 2 & 3 - 6 \end{vmatrix}$$

Englishos de+(B)=-96 #0 apa unapper o B-1

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$$\begin{bmatrix} 3 & 0 & 1 & 2 & | & 0 & 1 & 0 & 0 \\ 0 & 1 & 2 & 3 & | & 1 & 0 & 0 & 0 \\ 0 & 1 & 2 & 3 & | & 1 & 0 & 0 & 0 \\ 1 & 2 & 3 & 0 & | & 0 & 0 & 0 \\ 1 & 2 & 3 & 0 & | & 0 & 0 & 0 \\ 1 & 2 & 3 & 0 & | & 0 & 0 & 0 \\ 1 & 2 & 3 & 0 & | & 0 & 0 & 0 \\ 1 & 2 & 3 & 0 & | & 0 & 0 & 0 \end{bmatrix}$$

11 9

B) Deire askhsh 2a.jpg

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

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

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

$$\begin{bmatrix} 1 & 4 & 6 & 6 \\ 8 & 1 & 4 & 8 \\ 6 & 8 & 1 & 4 \end{bmatrix}$$

$$\begin{bmatrix} 1 & 4 & 6 & 6 \\ 8 & 1 & 4 & 8 \\ 8 & 6 & 8 & 1 & 4 \end{bmatrix}$$

$$\begin{bmatrix} 1 & 4 & 6 & 6 \\ 8 & 1 & 4 & 8 \\ 8 & 6 & 8 & 1 & 4 \end{bmatrix}$$

$$\begin{bmatrix} 1 & 4 & 6 & 6 \\ 8 & 1 & 4 & 8 \\ 8 & 6 & 8 & 1 & 4 \end{bmatrix}$$

$$\begin{bmatrix} 1 & 4 & 6 & 6 \\ 8 & 1 & 4 & 8 \\ 8 & 6 & 8 & 1 & 4 \end{bmatrix}$$

$$\begin{bmatrix} 1 & 4 & 6 & 6 \\ 8 & 1 & 4 & 8 \\ 8 & 6 & 8 & 1 & 4 \end{bmatrix}$$

$$\begin{bmatrix} 1 & 4 & 6 & 6 \\ 8 & 1 & 4 & 8 \\ 8 & 6 & 8 & 1 & 4 \end{bmatrix}$$

## Aornan 4

$$\Delta = \begin{bmatrix}
1 & 1 & 1 & 1 \\
2 & -1 & 2 & -1 \\
1 & 1 & -2 & -1 \\
1 & -1 & -1 & 1
\end{bmatrix}$$

$$\Delta^{2} = \Delta \cdot \Delta = \begin{bmatrix}
1 & 1 & 1 & 1 \\
1 & -1 & -1 & 1
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 1 & 1 & -1 & -1 \\
1 & -1 & -1 & 1
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 1 & -1 & -1 \\
1 & -1 & -1 & 1
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0
\end{bmatrix}$$

$$= 4 II$$

$$\begin{bmatrix}
1 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0
\end{bmatrix}$$

AM = TM4726