Munas D3-7 Naupurol Bopue

Bounednoe rues - 4

Mych C- nougrabanaece marpinge.

Torge metpy our 39, weth To, 200

$$\left(\begin{array}{c} \left(\begin{array}{c} 2 \\ 2 \\ \end{array}\right) \left(\begin{array}{c} 2 \\ 2 \\ \end{array}\right) \left(\begin{array}{c} 2 \\ 2 \\ \end{array}\right) \left(\begin{array}{c} 1 \\ 2 \\ \end{array}\right) \left(\begin{array}{c} 1 \\ 2 \\ \end{array}\right) \left(\begin{array}{c} 1 \\ 2 \\ \end{array}\right) = C$$

Uz 70020 nomen neperior k:

det(A) det(B) = det(C)

det(H) - uz lecren uz ycushna u palen 5

Ochawco naim det (B)

$$\begin{vmatrix} 1 & 1 & -1 & -3 \\ -1 & 3 & -1 & 0 \\ 1 & -1 & 9 & -1 \\ -2 & 3 & 3 & -13 \end{vmatrix} = \begin{vmatrix} 1 - 1 & 9 & -1 \\ 1 & 1 & -1 & -3 \\ -1 & 3 & -1 & 0 \\ -2 & 3 & 3 & -13 \end{vmatrix} = \begin{vmatrix} 1 - 1 & 9 & -1 \\ 1 & 1 & -1 & -3 \\ -2 & 3 & 3 & -13 \end{vmatrix} = \begin{vmatrix} 1 - 1 & 9 & -1 \\ -1 & 3 & -1 & 0 \\ -2 & 3 & 3 & -13 \end{vmatrix}$$

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$$= \begin{vmatrix} 1 & -1 & 4 & -8 \\ 0 & 2 & -5 & 5 \\ 0 & 2 & 3 & -8 \\ 0 & 1 & 11 & -23 \end{vmatrix} = \begin{vmatrix} 1 & -1 & 4 & -8 \\ 0 & 1 & 11 & -23 \\ 0 & 0 & 8 & -13 \end{vmatrix} = \begin{vmatrix} 1 & -1 & 4 & -8 \\ 0 & 1 & 11 & -23 \\ 0 & 0 & 8 & -13 \end{vmatrix} = 1 \cdot 1 \cdot (27 \cdot 13 - 63 \cdot 8) = -153$$

Orber: -765.

Pyco C - no eyenburace evapuya

$$\begin{pmatrix}
3-3-2-5 \\
2 5 4 6 \\
5 5 8 7 \\
4 4 5 6
\end{pmatrix}
-
\begin{pmatrix}
9_1 \\
9_2 \\
9_3 \\
\hline
9_4
\end{pmatrix}
= C$$

$$\begin{vmatrix} 3-3-2-5 \\ 2546 \end{vmatrix} = \begin{vmatrix} 3-3-2-5 \\ 2546 \end{vmatrix} = -9 \begin{vmatrix} 1-8-6-11 \\ 254 \end{vmatrix} = -9 \begin{vmatrix} 1-8-6-1$$

$$= 9 \begin{vmatrix} 1 - 8 - 6 - 11 \\ 0 + 1 - 2 + 2 \\ 0 + 21 + 16 + 28 \\ 0 + 3 - 21 \end{vmatrix} = 9 \cdot 1 - 1 - (26 \cdot 2 - 14 \cdot 3) = 9 \cdot 10 = 90$$

$$\frac{11 + 311 - 2 \cdot 1}{2} \begin{vmatrix} 1 - 2 & 0 - 6 \\ 0 - 1 & 1 & 14 \end{vmatrix} = \begin{vmatrix} 1 - 2 & 0 - 6 \\ 11 & 311 + 3 \cdot 11 \end{vmatrix} = \begin{vmatrix} 1 - 2 & 0 - 6 \\ 0 - 1 & 1 & 14 \end{vmatrix} = \begin{vmatrix} 1 - 2 & 0 - 6 \\ 0 & 3 & 3 & 3 \end{vmatrix} = -1 \cdot 3 \cdot 3 = -8$$

Orbei -s.

$$= - \begin{vmatrix} 1 & 2 & 3 & 4 & 5 \\ 0 & 1 & -1 & -2 & -3 \\ 0 & 0 & 1 & 2 & 3 \end{vmatrix} \xrightarrow{\boxed{[V] \rightarrow -1 \cdot [V]}} \begin{vmatrix} 1 & 2 & 3 & 4 & 5 \\ 0 & 1 & -1 & -2 & -3 \\ \hline{V} \rightarrow \overline{[V] \rightarrow -1 \cdot [V]}} \begin{vmatrix} 1 & 2 & 3 & 4 & 5 \\ 0 & 1 & 2 & 3 \\ \hline{V} \rightarrow \overline{[V] \rightarrow -1 \cdot [V]}} \begin{vmatrix} 1 & 2 & 3 & 4 & 5 \\ 0 & 1 & 2 & 3 \\ \hline{V} \rightarrow \overline{[V] \rightarrow -1 \cdot [V]}} \end{vmatrix} = 1 \cdot 1 \cdot 1 \cdot (3 \cdot (-1) + 11 \cdot 5) = 1$$

0565152.

$$\begin{vmatrix}
\frac{3}{2} - \frac{9}{2} - \frac{1}{2} - 3 & | \frac{1}{11} \Rightarrow 3 \cdot 11 \\
\frac{5}{3} - \frac{8}{3} - \frac{7}{3} - \frac{7}{3} & | \frac{1}{11} \Rightarrow 3 \cdot 11 \\
\frac{4}{3} - \frac{5}{3} - 1 - \frac{7}{3} & | \frac{1}{12} \Rightarrow 3 \cdot 11 \\
\frac{4}{3} - \frac{5}{3} - 1 - \frac{7}{3} & | \frac{1}{12} \Rightarrow \frac{7}{3} - \frac{7}{3} -$$

$$\frac{1}{16} = \frac{1}{16} = \frac{1}{16}$$

$$\frac{11 \rightarrow 11 \cdot \frac{1}{3}}{12 \rightarrow 12 - 6 \cdot 11} \frac{1}{6} = \frac{1}{6} \cdot \frac{1}{$$

056e5:1

DLE 20020 MONTH MYMMU LOBEPAUNT MEZYDUSTO REPLETANOBRY SLOKER

Vernour repectanolien - remour mone und epani. Pourment

$$\begin{vmatrix} 0 & 0 & P \\ 0 & Q & C \\ R & A & B \end{vmatrix} = (-1)^{535} \begin{vmatrix} R & A & B \\ 0 & Q & C \\ 0 & 0 & P \end{vmatrix} = -1 \cdot 12 \cdot 13 \cdot 15 = -130$$

Do 605: -530

Manguell Bopac 57MU-216

Orberin!

A-yeurrecuennae marpuya = ) def(A) & Z, T.K. Korga un cumaen onposeen reu y noc ner oneponeum geneume
Anarowrus def(A<sup>-1</sup>) & Z

$$\int def(A) = \frac{1}{def(A^{-1})}$$

$$def(A^{-1}) \in \mathbb{Z}$$

$$def(A) = def(A^{-1}) = \pm 1$$

$$def(A) \in \mathbb{Z}$$

0,6e: ±1.

