1) nobrojeture maternara gra bekropal & mogity re A = (5F) ; 28e F - equinities 5x5. $A^* = \begin{pmatrix} 50000 \\ 050000 \\ 000500 \\ 000050 \end{pmatrix} = (5E).$; $\det A^* = 5^5.$ ($\neq 0$.) Bocnonozyemas metogom (A*|E) -> (E|A*-1) Paggenum nocnegobaientes Kanggro corpory Has. 0 00001 0,2000 \$0000 (A+)-s

$$N2$$
.

 $A = \begin{pmatrix} 123 \\ 406 \\ 785 \end{pmatrix}$; $\det A = \begin{pmatrix} 1&2&3 \\ 4&06 \\ 789 \end{pmatrix} = 1(-48) - 2(36 - 42) + 3(32) =$
 $= -48 + 12 + 96 = 60$
 $\det A = 60$

det A = 60; m. x ≠0; 70 dop. marpuega cyujecthyer

$$\widehat{A} = \begin{pmatrix} -48 + 6 & 32 \\ +6 & -12 & +6 \\ 12 & +6 & -8 \end{pmatrix} \quad \widehat{A} = \begin{pmatrix} -48 & 6 & 32 \\ 6 & -12 & 6 \\ 12 & 6 & -8 \end{pmatrix}$$

$$\widehat{A}^{T} = \begin{pmatrix} -48 & 6 & 12 \\ 6 & -12 & 6 \\ 32 & 6 & -8 \end{pmatrix}$$

$$A^{-1} = \frac{\hat{A}^{T}}{de+A} = \begin{vmatrix} -0.8 & 0.1 & 0.2 \\ 0.1 & -0.2 & 0.1 \\ \frac{8}{15} & 0.1 & -\frac{2}{15} \end{vmatrix}$$

2)
$$\begin{pmatrix} 3.5 & 7 & 14 & 0 \\ 1 & 2 & 4 & 0 \\ 4 & 8 & 16 & 0 \\ 5 & 10 & 20 & 0 \end{pmatrix}$$
 rank = 1.

$$\begin{array}{lll}
N4. \\
\vec{\alpha} = (1,5); \vec{6} = (2,8) \\
(\vec{\alpha}; \vec{6}) = x, x_2 + y, y_2 = 2 + 40 = 42.
\end{aligned}$$

$$\begin{array}{lll}
N5. \\
\vec{\alpha} = (3,5,0) \\
\vec{6} = (2,8,7)
\end{aligned}$$

$$\begin{array}{lll}
\vec{(\alpha}; \vec{6}]; c) = (\vec{7}; \vec{7}) = 35 \cdot 7 - 1,5 \cdot 7 - 6 = 228, 5
\end{aligned}$$

$$\begin{array}{lll}
\vec{(\alpha}; \vec{6}] = \vec{(3,5)}; 3
\end{aligned}$$

$$\begin{array}{lll}
\vec{(\alpha}; \vec{6}] = \vec{(3,5)} - \vec{(3,5)} -$$