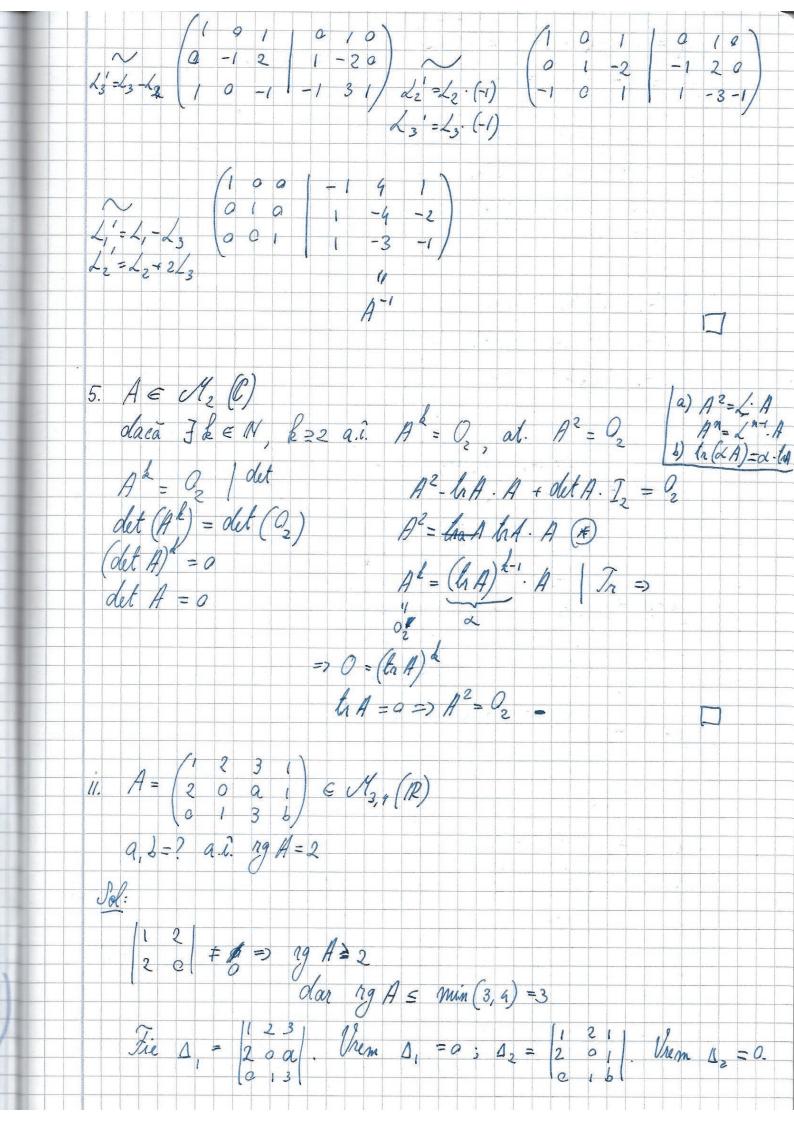
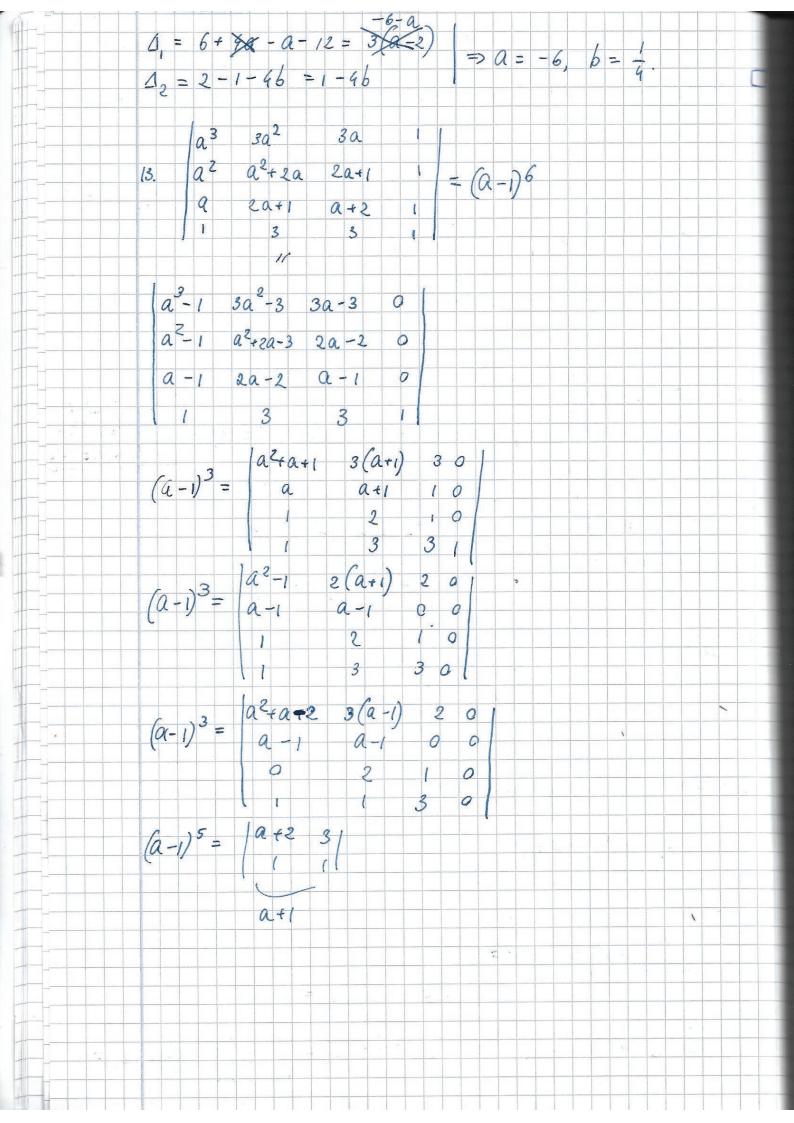


Mutrue Determinent. Rang Forms exclose

A =  $\begin{cases} ba & 1+b^2 & b \\ ba & 1+b^2 & cb \\ ca & be & 1+c^2 \end{cases}$ A =  $\begin{cases} ba & 1+b^2 & cb \\ ba & 1+c^2 \end{cases}$ A =  $\begin{cases} ba & 1+b^2 & cb \\ ba & 1+c^2 \end{cases}$ A =  $\begin{cases} ba & 1+b^2 & cb \\ ba & 1+c^2 \end{cases}$ A =  $\begin{cases} ba & 1+b^2 & cb \\ ba & 1+c^2 \end{cases}$ A =  $\begin{cases} ba & 1+b^2 & cb \\ ba & 1+c^2 \end{cases}$ A =  $\begin{cases} ba & 1+b^2 & cb \\ ba & 1+c^2 \end{cases}$ A =  $\begin{cases} ba & 1+b^2 & cb \\ ba & 1+c^2 & cb \\ ca &$ 

b) 
$$m = \emptyset$$
,  $h'' = ?$ 
 $A = \begin{pmatrix} 2 & -i & 9 \\ 0 & i \\ 0 & i \end{pmatrix}$ 
 $A = \begin{pmatrix} 2 & -i & 9 \\ -i & -i & 0 \\ 0 & i \end{pmatrix}$ 
 $A = \begin{pmatrix} -i & -i \\ 4 & i & 0 \end{pmatrix}$ 
 $A = \begin{pmatrix} -i & -i \\ 4 & i & 0 \end{pmatrix}$ 
 $A = \begin{pmatrix} -i & -i \\ 4 & i & 0 \end{pmatrix}$ 
 $A = \begin{pmatrix} -i & -i \\ 4 & i & 0 \end{pmatrix} = 1$ 
 $A = \begin{pmatrix} -i & -i \\ 4 & i & 0 \end{pmatrix} = 1$ 
 $A = \begin{pmatrix} -i & -i \\ 4 & i & 0 \end{pmatrix} = 1$ 
 $A = \begin{pmatrix} -i & -i \\ 4 & i & 0 \end{pmatrix} = 1$ 
 $A = \begin{pmatrix} -i & -i \\ 4 & i & 0 \end{pmatrix} = 1$ 
 $A = \begin{pmatrix} -i & -i \\ 4 & i & 0 \end{pmatrix} = 1$ 
 $A = \begin{pmatrix} -i & -i \\ 4 & 1 \end{pmatrix} = 1$ 
 $A = \begin{pmatrix} -i & -i \\ 1 & -4 & -2 \end{pmatrix}$ 
 $A = \begin{pmatrix} -i & 4 & 1 \\ 1 & -4 & -2 \end{pmatrix}$ 
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 $A = \begin{pmatrix} -i & 4 & 1 \\ 1 & -4 & -2 \end{pmatrix}$ 
 $A = \begin{pmatrix} -i & 4 & 1 \\ 1 & -$ 





Prop: (Zm, +, ) este un inel  $A \in \mathcal{M}_{m,m}(\mathbb{Z}_n)$  inel = del  $A \in \mathcal{O}(\mathbb{Z}_n)$  $\int_{a}^{a} \in \mathbb{Z}_{m} \left( (a, n) = i \right)$  $A = \begin{pmatrix} 2 & 2 \\ 2 & 3 \end{pmatrix} \in \mathcal{M}_2(\mathbb{Z}_6)$  inversabila?  $\det A = 2 \cdot 3 - 2 \cdot 1 = -2 = \widehat{q} \in \mathcal{O}(\mathbb{Z}_6) = \mathcal{O}(\mathbb{Z}_6) = \{1, 5\}$ (Ip, +, .) este un corp, p = prim. U(Ip) = Ip\* A & M, m (Z) inversabilă => det H + a.  $A = \begin{pmatrix} 1 & 5 \\ 3 & 9 \end{pmatrix} \in \mathcal{N}_2(\mathbb{Z}_5)$ det A = 4.1 - 3.2 = -2 = 3  $(\hat{3})^{-1} = \hat{2} \implies A = \hat{2} \cdot (\hat{4} - \hat{2}) = \hat{2} \cdot (\hat{4} - \hat{3}) = (\hat{3} - \hat{6}) = (\hat{3} - \hat{3}) = (\hat{3}$  $=\begin{pmatrix} 3 & 1 \\ 1 & 2 \end{pmatrix} \Rightarrow UZ_6 = \{1, 5\}$ In - A, Ja + A imo.  $J_{n} = J_{n}^{2} - A^{2} = (J_{n} - A)(J_{n} + A) = (J_{n} + A)(J_{n} - A) = (J_{n} - A)^{-1} = J_{n} + A$   $(J_{n} + A) = (J_{n} - A)^{-1} = (J_{n} + A)^{-1} = (J$  $J_{n} = J_{n}^{3} - A^{3} = (J_{n} - A)(J_{n} + A + A^{2}) = (J_{n} + A + A^{2})(J_{n} - A) = 0$ => (J- H) = J+ H+ H2

Hereled (Joy +A) = -9 - A+ B2