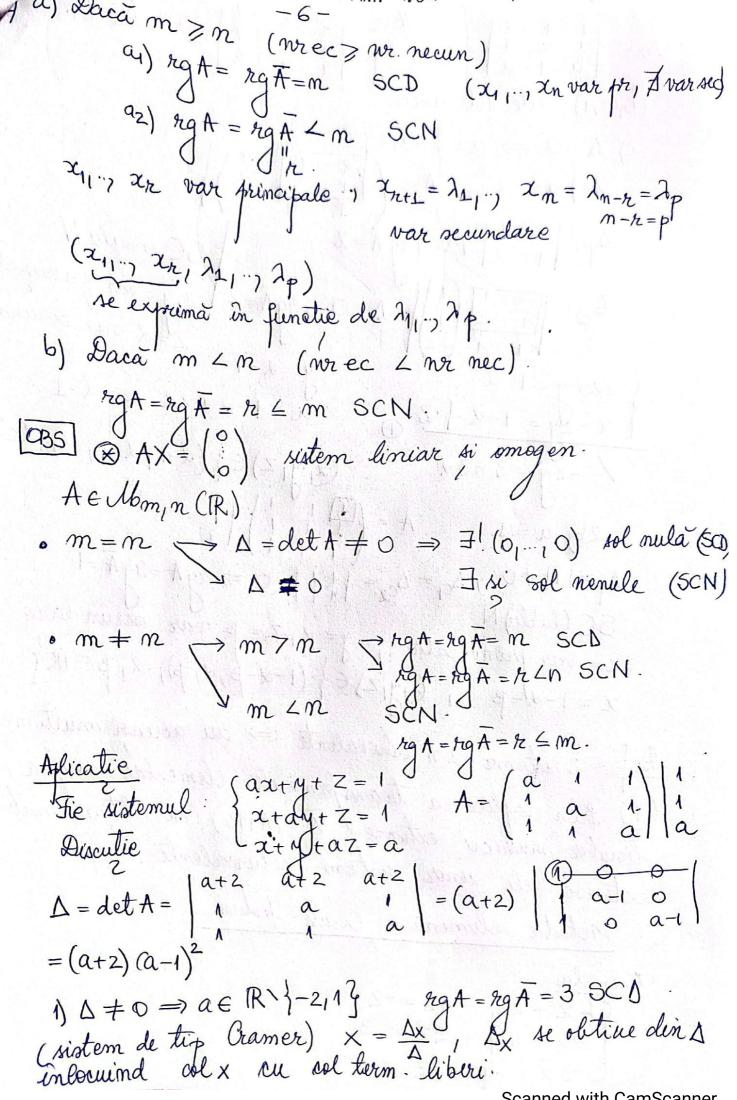


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 $\Delta x = \begin{vmatrix} 1 & a & 1 \\ a & 1 & a \end{vmatrix} = 0$ ,  $\Delta y = \begin{vmatrix} a & 1 \\ 1 & a & a \end{vmatrix} = 0$ ,  $\Delta z = \Delta$  tacca (0,0,1) este sol unica 2)  $\Delta = 0 \Rightarrow a \in \{-2,1\}$   $2a) a = -2 \qquad A = \begin{pmatrix} 2 & 1 & 1 \\ 1 & -2 & 1 \\ 1 & 1 & -2 \end{pmatrix} \begin{pmatrix} 1 & 1 & 1 \\ 1 & 1$  $\Delta p = \begin{vmatrix} -2 \\ 1 - 2 \end{vmatrix} \neq 0 \mid \text{try } A = 2$  $\Delta_{c} = \sqrt{\frac{72}{1-2}} \begin{pmatrix} 1 \\ 1 \\ -2 \end{pmatrix} = \Delta = 0 \Rightarrow \text{rg } \overline{A} = 2 \\ 2x + y = 1 - d$  2x + y = 1 - d y = d - 1 2x + y = 1 - d y = d - 1 $\begin{cases}
-2x + y = 1 - d & y = d - 1 \\
x - 2y = 1 - d \cdot 2
\end{cases}$   $\Rightarrow x = 1 - d + 2d - 2 = d - 1.$ /-3y=3-3d (24y1Z) & (d-1,d-1,d), de Ry  $2b) a = 1 \qquad A = \begin{pmatrix} 2b \\ 1 \\ 1 \\ 1 \end{pmatrix} \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix}$  $\Delta p = |1| \neq 0 \quad |\Delta_q = \Delta_{c_2} = |1| \quad |= 0 \Rightarrow rgh = rg\overline{A} = 1$ x= var frincipala, y=x,z=p var secundare SC (duble) N  $x = 1 - \lambda - \beta$ ; (a.y.z)  $\in \{(1 - \lambda - \beta, \lambda, \beta), \lambda, \beta \in \mathbb{R}^{3}\}$ Def. 2 sisteme s.n echivalente = au acreasi multime deste (T) Prim aglicarea transformarilor elementare asupra linidor matricei extinse / A=(AIB) se obtin matrice extinse ale unor sistem echivalente. Metoda eliminārii Gaus-Jordan Exemplu  $\int -2 + 2y - 3z = -2$ 2x - 69 + 92 = 3-3x+2y+2z=-3.

 $A = (A|B) = \begin{pmatrix} -1 \\ 2 \\ 2 \\ -3 \\ -3 \\ 2 \\ 2 \\ -3 \end{pmatrix} \sim \begin{pmatrix} 1 \\ -2 \\ 3 \\ -1 \\ 3 \end{pmatrix} \sim \begin{pmatrix} 1 \\ -2 \\ 3 \\ -1 \\ 3 \end{pmatrix} \sim \begin{pmatrix} 1 \\ 0 \\ 0 \\ 3 \\ 2 \\ -1 \end{pmatrix} \begin{pmatrix} 1 \\ 0 \\ 0 \\ 3 \\ 1 \\ 3 \end{pmatrix} \sim \begin{pmatrix} 1 \\ 0 \\ 0 \\ 2 \\ 3 \\ -1 \end{pmatrix} \begin{pmatrix} 1 \\ 0 \\ 0 \\ 3 \\ 1 \\ 3 \end{pmatrix} \sim \begin{pmatrix} 1 \\ 0 \\ 0 \\ 3 \\ 1 \\ 3 \end{pmatrix} \sim \begin{pmatrix} 1 \\ 0 \\ 0 \\ 2 \\ 3 \\ -1 \end{pmatrix} \begin{pmatrix} 1 \\ 0 \\ 0 \\ 3 \\ 1 \\ 3 \end{pmatrix} \sim \begin{pmatrix} 1 \\ 0 \\ 0 \\ 1 \\ 3 \end{pmatrix} \sim \begin{pmatrix} 1 \\ 0 \\ 0 \\ 1 \\ 3 \end{pmatrix} \sim \begin{pmatrix} 1 \\ 0 \\ 0 \\ 1 \\ 3 \end{pmatrix} \sim \begin{pmatrix} 1 \\ 0 \\ 0 \\ 1 \\ 3 \end{pmatrix} \sim \begin{pmatrix} 1 \\ 0 \\ 0 \\ 1 \\ 3 \end{pmatrix} \sim \begin{pmatrix} 1 \\ 0 \\ 0 \\ 1 \\ 3 \end{pmatrix} \sim \begin{pmatrix} 1 \\ 0 \\ 0 \\ 1 \\ 1 \end{pmatrix} \begin{pmatrix} 1 \\ 0 \\ 0 \\ 1 \\ 3 \end{pmatrix} \sim \begin{pmatrix} 1 \\ 0 \\ 0 \\ 1 \\ 3 \end{pmatrix} \sim \begin{pmatrix} 1 \\ 0 \\ 0 \\ 1 \\ 3 \end{pmatrix} \sim \begin{pmatrix} 1 \\ 0 \\ 0 \\ 1 \\ 3 \end{pmatrix} \sim \begin{pmatrix} 1 \\ 0 \\ 0 \\ 1 \\ 3 \end{pmatrix} \sim \begin{pmatrix} 1 \\ 0 \\ 0 \\ 1 \\ 1 \end{pmatrix} \begin{pmatrix} 1 \\ 0 \\ 0 \\ 1 \\ 3 \end{pmatrix} \sim \begin{pmatrix} 1 \\ 0 \\ 0 \\ 1 \\ 3 \end{pmatrix} \sim \begin{pmatrix} 1 \\ 0 \\ 0 \\ 1 \\ 3 \end{pmatrix} \sim \begin{pmatrix} 1 \\ 0 \\ 0 \\ 1 \\ 3 \end{pmatrix} \sim \begin{pmatrix} 1 \\ 0 \\ 0 \\ 1 \\ 3 \end{pmatrix} \sim \begin{pmatrix} 1 \\ 0 \\ 0 \\ 1 \\ 3 \end{pmatrix} \sim \begin{pmatrix} 1 \\ 0 \\ 0 \\ 1 \\ 3 \end{pmatrix} \sim \begin{pmatrix} 1 \\ 0 \\ 0 \\ 1 \\ 3 \end{pmatrix} \sim \begin{pmatrix} 1 \\ 0 \\ 0 \\ 1 \\ 3 \end{pmatrix} \sim \begin{pmatrix} 1 \\ 0 \\ 0 \\ 1 \\ 3 \end{pmatrix} \sim \begin{pmatrix} 1 \\ 0 \\ 0 \\ 1 \\ 3 \end{pmatrix} \sim \begin{pmatrix} 1 \\ 0 \\ 0 \\ 1 \\ 3 \end{pmatrix} \sim \begin{pmatrix} 1 \\ 0 \\ 0 \\ 1 \\ 3 \end{pmatrix} \sim \begin{pmatrix} 1 \\ 0 \\ 0 \\ 1 \\ 3 \end{pmatrix} \sim \begin{pmatrix} 1 \\ 0 \\ 0 \\ 0 \\ 1 \end{pmatrix} \sim \begin{pmatrix} 1 \\ 0 \\ 0 \\ 0 \\ 1 \end{pmatrix} \sim \begin{pmatrix} 1 \\ 0 \\ 0 \\ 0 \\ 0 \end{pmatrix} \sim \begin{pmatrix} 1 \\ 0 \\ 0$