$$V_A = (1,2,3)$$
 $V_2 = (2,3,7)$ $V_3 = (4,1,a)$

$$\begin{cases} 2x_1 + 2x_2 + 4x_3 = 0 \\ 2x_1 + 3x_2 + 2x_3 = 0 \\ 3x_1 + 7x_2 + 2x_3 = 0 \end{cases}$$

Naugh = naug
$$\begin{pmatrix} 1 & 2 & 3 \\ 2 & 3 & 1 \end{pmatrix}$$
 $\begin{pmatrix} 2 & 2 \\ 2 & 3 & 1 \end{pmatrix}$ $\begin{pmatrix} 2 & 2 \\ 2 & 3 & 1 \end{pmatrix}$ $\begin{pmatrix} 2 & 2 \\ 3 & 7 & 2 \end{pmatrix}$ $\begin{pmatrix} 2 & 2 \\ 3 & 2 \end{pmatrix}$ $\begin{pmatrix} 2 & 2 \\ 3 & 1 \end{pmatrix}$ $\begin{pmatrix} 2 & 2 \\ 3 & 2 \end{pmatrix}$ $\begin{pmatrix} 2 & 2 \\ 3$

$$= nang \begin{pmatrix} 1 & 2 & 4 \\ 0 & -1 & -7 \\ 0 & 0 & \alpha - 19 \end{pmatrix} = \frac{1}{nang} \begin{pmatrix} 1 & 2 & 4 \\ 0 & 1 & 7 \\ 0 & 0 & \alpha - 19 \end{pmatrix} = \frac{2}{nang} \begin{pmatrix} 1 & 2 & 4 \\ 0 & 1 & 7 \\ 0 & 0 & \alpha - 19 \end{pmatrix} = \frac{2}{nang} \begin{pmatrix} 1 & 0 & -10 \\ 0 & 1 & 7 \\ 0 & 0 & \alpha - 19 \end{pmatrix}$$

intel CORE ©2 #3 \$4 %5 ^6 \$7 *8 (9)0 -- += NUMLX

W E R T Y

naug A = mr pivofilor => $\alpha = 19 \in \mathbb{R}$ naug $A \le 3$

pentru a = 19=> VI, V2 si v3 sunt liniar independenti

$$\begin{pmatrix} 1 & 0 & -10 \\ 0 & 1 & 7 \\ 0 & 0 & 0 \end{pmatrix} = \begin{pmatrix} 1 & 7 & 7 & 7 \\ 0 & 0 & 0 \end{pmatrix}$$

V3=-10V1+7V2