855ES sonoige Limoll

atridade 2 = ms 211 c

 $\begin{cases}
x + 2 y + 3 = 3 \\
2x + 3 y + 2 = 5 \\
3x + 5 y + 2 = 1
\end{cases}$

utilizanda a MEG, (7,0)

· Obtemos a matry ampliada | 1 2 1:3 |

All 3 5 2:1

ab girtam a comomrafament cinothemele desposage solmogility. : reingua ralupmoint girtom some me certainges

X +27 +3 = 3 : some cometile. -7-3=-1 0 = - + 1 = mma indeterminação cama a pasta da motiz das caepicientes (A) e diffinte da pasta da motiz ampliada (AII), a sistema mão pasoni Dalução: Poeta (| 1 2 4 |) = 12 4 Poeta (| 1 2 1 ; 3 |) = 3 | 3 5 2 |) = 3

Devisasqui i sometaia

er) Utilizanda a Pataração L. U:

$$A^{(0)} = \begin{cases} 1 & 1 & -1 \\ 2 & -1 & 1 \\ -1 & 1 & 1 \end{cases}$$

A(0) 1 1 - 1 | Onlistituinde as multiplicadores alitérée le 2 - 1 1 | na eliminação de Gouar, aliteratura L.

$$A^{(1)} = \begin{bmatrix} 1 & 1 & -1 \\ 2 & -3 & 3 \\ 1 & 2 & 0 \end{bmatrix} \rightarrow A^{(2)} \begin{bmatrix} 1 & 1 & -1 \\ 2 & -3 & 3 \\ 1 & 2 & 0 \end{bmatrix}$$

= |1 0 0 | Bulistituinde and restante da

mostre A(c) alsterno U:

$$V = \begin{bmatrix} 1 & 1 & -1 \\ 0 & -3 & 3 \\ 0 & 0 & 2 \end{bmatrix}$$

Risalvinda!

$$\begin{cases} 3 & -3 \\ 23 & +3 \\ -3 & -3 \\ -3$$

coeim:
$$UX = Y \rightarrow \begin{vmatrix} 1 & 1 & -1 \\ 0 & -3 & 3 \\ 0 & 0 & 2 \end{vmatrix} \begin{vmatrix} x \\ 3 \end{vmatrix} = \begin{vmatrix} 3 \\ 1 \end{vmatrix}$$

Resolvenda:

Nochmoda:

$$3 = 1/2$$

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2) dada a sistema, construimas a motrez simpliada:

$$A19r = \begin{vmatrix} 0.8 & -0.2 & -0.2 & -0.3 & 0.5 \\ -0.2 & 0.9 & -0.2 & -0.3 & 0.9 \\ -0.3 & -0.3 & 0.8 & -0.2 & 0.3 \\ -0.2 & -0.2 & -0.9 & 0.8 & 0 \end{vmatrix}$$

: curatremele ceisorgo abmoilgo

> 0,525 0,719117646 0,71911764

Ly -> Ly Ly -> Lz Ly -> Ly Ly -> Ly + Ly .0,8516 7464

Alu=

0,9 -0,2 -0,2 -0,3

0 0,45 -0,25 -0,3 +5

0 0,525

0 0,644 70 5 482 -0,47 7 94 11 7 6

0 0 0 0,20 7 6 5 5 5 0 3 0,89 1 8 6 6 0 2 6

: sometale es connetilo

$$0.8x_{4} - 0.2x_{2} - 0.2x_{3} - 0.3x_{4} = 0.5$$
 $0.85x_{2} - 0.25x_{3} - 0.375x_{4} = 0.505$
 $0.614705882x_{3} - 0.47794176x_{4} = 0.7749147646$
 $0.207655503x_{4} = 0.891866026$

Resolvenda!

$$X4 = 0,894866026$$
 $\Rightarrow X4 = 4,29493085/$

4,29993085)

0,8