Muran N°2. Domannee zapanne Jup 1/ Janobne unnemmer jasnemmoury offer bearopol à 46 Ma+16=0 ye Mud ER u norredon opio y ma ne parro O. вистема интентох уравнений С 2 rungeconounu. M (5,3,8) + A(4,3,1) = 0 (M.5, M.3, M.8) + (1.4, 1.3, 1.1) = 5 $(5\mu + 4\lambda, 3\mu + 3\lambda, 8\mu + 1\lambda) = (0, 0, 0)$

$$\begin{cases} 5\mu + 4\lambda = 0\\ 3\mu + 3\lambda = 0\\ 8\mu + 1\lambda = 0 \end{cases}$$

$$\mathcal{J}_{M} = (-3) / -3$$

$$M = (-1)$$

$$-5\lambda + 4\lambda = 0$$

$$-\lambda = 0 / (-1)$$

$$\lambda = 0$$

Curema um zpabrenni c 3 une neigheospormer

 $M(5,3,8) + \lambda(4,3,1) + O(3,2,3 = 5$

(511, 311,811)+(41,31,11)+(32,20,32)=0

 $\{5n+41+30, 3n+31+20, 8n+1+30\} = \{0,0,0\}$

5M+41+30=0

 $\begin{cases} 3\mu + 3\lambda + 20 = 0 \\ 8\mu + \lambda + 30 = 0 \end{cases}$

 $I = -30 - 8\mu$

 $5\mu + 4/-30 - 8\mu + 30 = 0$

5M - 12V - 3QM +3V =0

-2711 -90=0/:1-9)

3u+2=0=> D=-3M7

$$\begin{array}{ll}
\sqrt{M} & \lambda = -3(-3M) - 8M \\
\lambda = 9M - 8M \\
\lambda = M
\end{array}$$

$$\begin{array}{ll}
(1) & 3n + 3\lambda + 20 = 0 \\
6n + 2(-3n) = 0 \\
0 = 0 & = 7
\end{array}$$

Cynjersbyror nemynessæ fræmerner order energense fræmerner, norsprung, N=1, $\lambda=1$, $\lambda=1-3$ => Thu bekrop-cipromi unneino-jabunner.

Pam martunger paben 2. Copomi (5,3,8) u (4,3,1) - universitionegaturmen

$$M(5,4,3) + \lambda(3,3,2) = \overline{0}$$

$$\begin{cases} 5M + 3\lambda = 0 \\ 4M + 3\lambda = 0 \\ 3M + 2\lambda = 0 \end{cases}$$

$$\begin{array}{ccc}
(II) & A_{11} = (2) \\
A_{12} = (-4) \\
A_{21} = (-4) \\
A_{22} = (2)
\end{array}$$

$$\begin{pmatrix}
2 & -4 \\
-4 & 2
\end{pmatrix} = B$$

$$\begin{array}{ll}
II & A_{11} = d \\
A_{12} = (-c) \\
A_{21} = (-b) \\
A_{22} = a
\end{array}$$

$$\begin{pmatrix}
d & (-c) \\
f & a
\end{pmatrix} = B$$

$$A^{\left(-1\right)} = \begin{pmatrix} 7 & (-3) & 0 \\ -2 & 1 & 0 \\ 0 & 0 & \frac{1}{4} \end{pmatrix}$$

Jup 4

B kneppgunaraz: (2; 4; (-2)), (1; 2; (-1)) $f(e_1) = 2f_1 + 4f_2 - 2f_3$ $f(e_2) = 1f_1 + 2f_2 - 1f_3 = f_1 + 2f_2 - f_3$

a) · (2; 4; 1-2) · (1; 2; (-1))

 $\begin{aligned} \delta) & f(\delta) = f(2e_1 - 3e_2) = f(2e_1) - f(3e_2) = \\ & = 2f(e_1) - 3f(e_2) = 2(2f_1 + 4f_2 - 2f_3) - 3. \\ & (f_1 + 2f_2 - f_3) = 4f_1 + 8f_2 - 4f_3 - 3f_4 - 6f_2 + 3f_3 \\ & f_1 + 2f_2 - f_3 \quad \delta \quad \text{karpymoran} \quad (1, 2, (-1)) \end{aligned}$