Neisur 7. 3 aganue 2 $\begin{cases} \dot{X}_1 = .X_2 + 5X_1^3 + X_1 X_2^2 \\ \dot{X}_2 = -4X_1 - 2X_1^2 X_2 + X_2^3 \end{cases}$ $A = \begin{pmatrix} 0 & 1 \\ -4 & 0 \end{pmatrix} \qquad \lambda_{1} = -2i$ $\lambda_{2} = 2i$ $B = \begin{pmatrix} \frac{1}{2} & -\frac{1}{2} \\ 1 & 1 \end{pmatrix}$ · \ = -1 $\lambda = -\frac{2i}{2i} = -\frac{2}{2} = \beta + \varphi$ nonombi chenenn (23,2r)

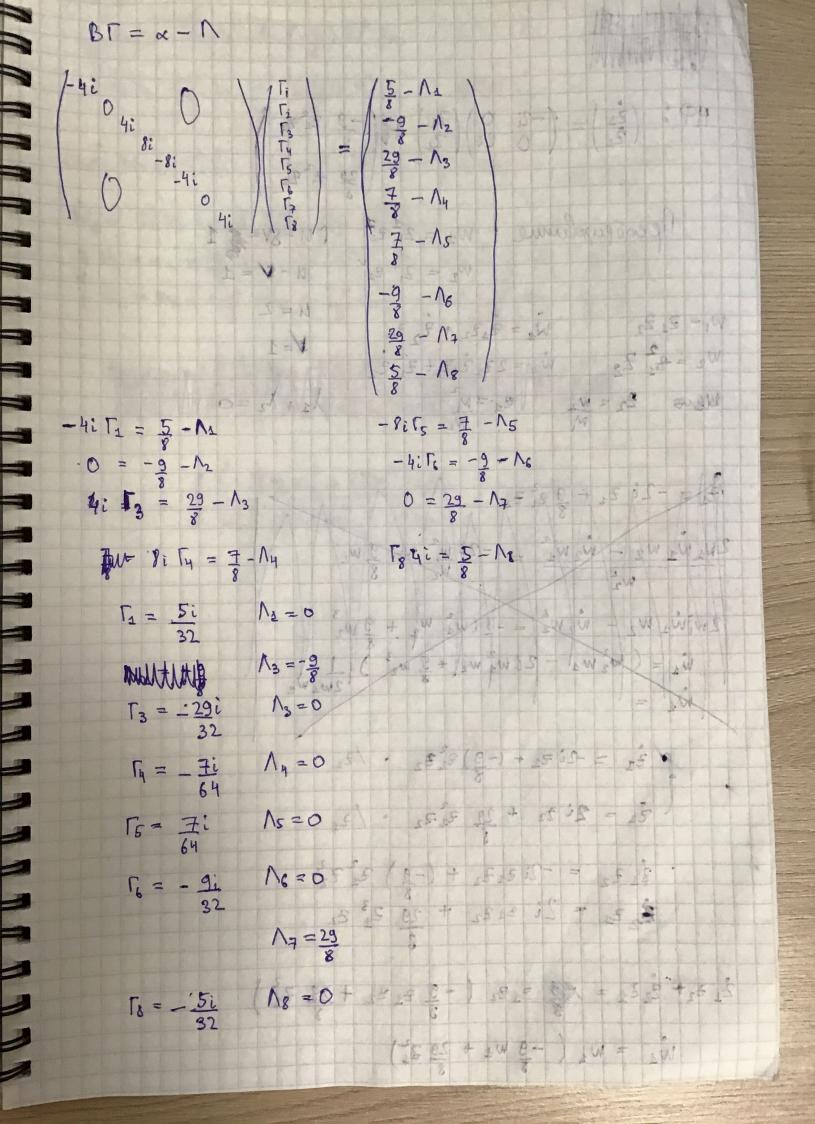
Tpackmopul exemp 1) X = By $\begin{pmatrix} x \\ y \end{pmatrix} = \begin{pmatrix} \frac{1}{2} & -\frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{pmatrix} \begin{pmatrix} y_1 \\ y_2 \end{pmatrix}$ $X = \frac{i}{2}(y_2 + y_2)$ $y = \frac{i}{2}(y_1 + y_2)$ 7 y2 = 9 y2 y2 + 29 y1 y2 + 5 ya3 / 2) zauera (42) = (21) + & (hiz) + & (haz) + & (haz) hip = [1 2,3 + [2 2, 22 + [3 2, 2+ [2] 4 hor 2 152,3 + 182,23 + 132,72+ 1825 911 - 123 +122, 22 +132, 22 +1423 2= J2+ 891 + 828z giz = 1523 + 162,22 + 1722 + 1823

BT = 1-4i 0 4i -4: T1 = .0 = . 41 53

The same T1 :

> Molh T3

> > 14



HP:
$$(\frac{2}{2}i) = (-2i \ 0)(\frac{2}{2}i) + (-9 \ 2i^{\frac{1}{2}}i)$$

Optopayolamul: $W_1 = 2i^{\frac{1}{2}}i^{\frac{1}{2}} + (U - 8V - 4)$
 $W_1 = 2i^{\frac{1}{2}}i^{\frac{1}{2}} + (U - 8V - 4)$
 $W_2 = 2i^{\frac{1}{2}}i^{\frac$

 $\begin{cases} \frac{2}{3} = \lambda_1 \frac{2}{3} + \left(-\frac{9}{8}\right) \frac{2}{3} \frac{2}{3} \frac{2}{3} & \left(2\frac{2}{3} \cdot \frac{2}{3}\right) \frac{2}{3} \frac{2}{3} \\ \frac{2}{3} = \lambda_2 \frac{2}{3} + \left(\frac{29}{8}\right) \frac{2}{3} \frac{2}{3} \frac{2}{3} & \left(\frac{2}{3}\right) \frac{2}{3} \frac{2}{3} \frac{2}{3} \end{cases}$ $2z_{1}z_{1}z_{2} + z_{1}z_{2} = (-18)z_{1}z_{2} + 20z_{1}z_{2} + 20z_{1}z_{2} + 20z_{1}z_{2} = w_{1}z_{2}$ $\ln w_2 = \int \frac{(-18w_1w_2^2 + 29w_1^4)dw_1}{w_1(-9w_1w_2^2 + 29w_1^4)} + C$