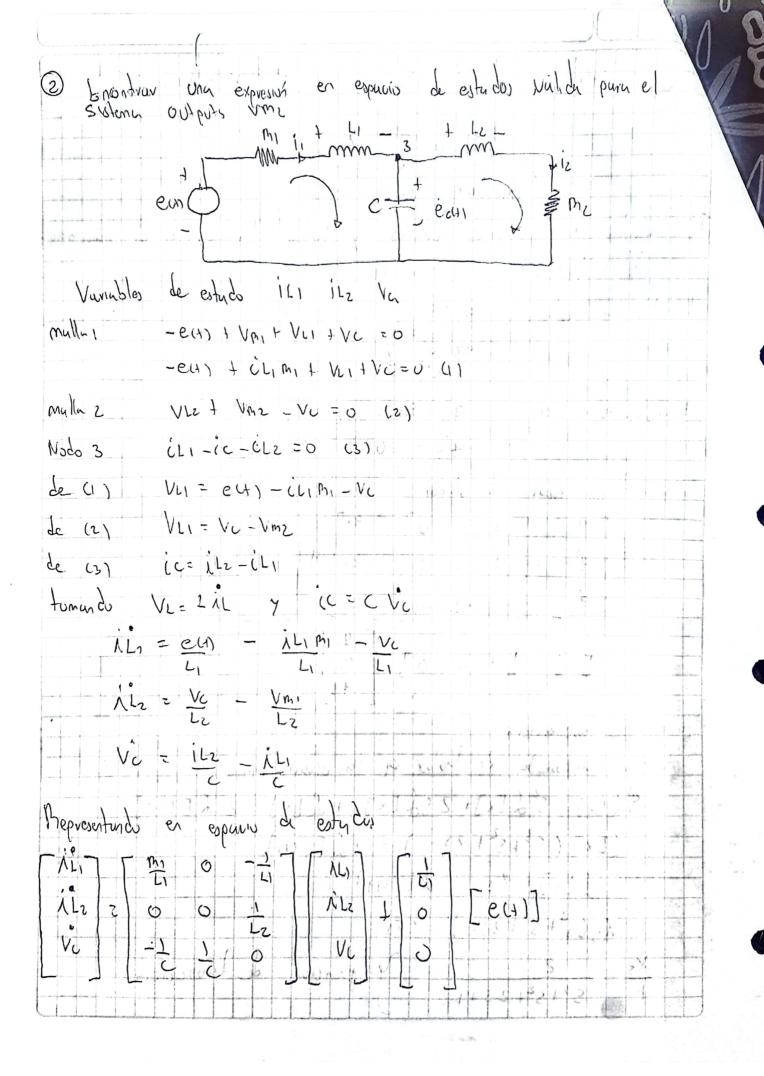
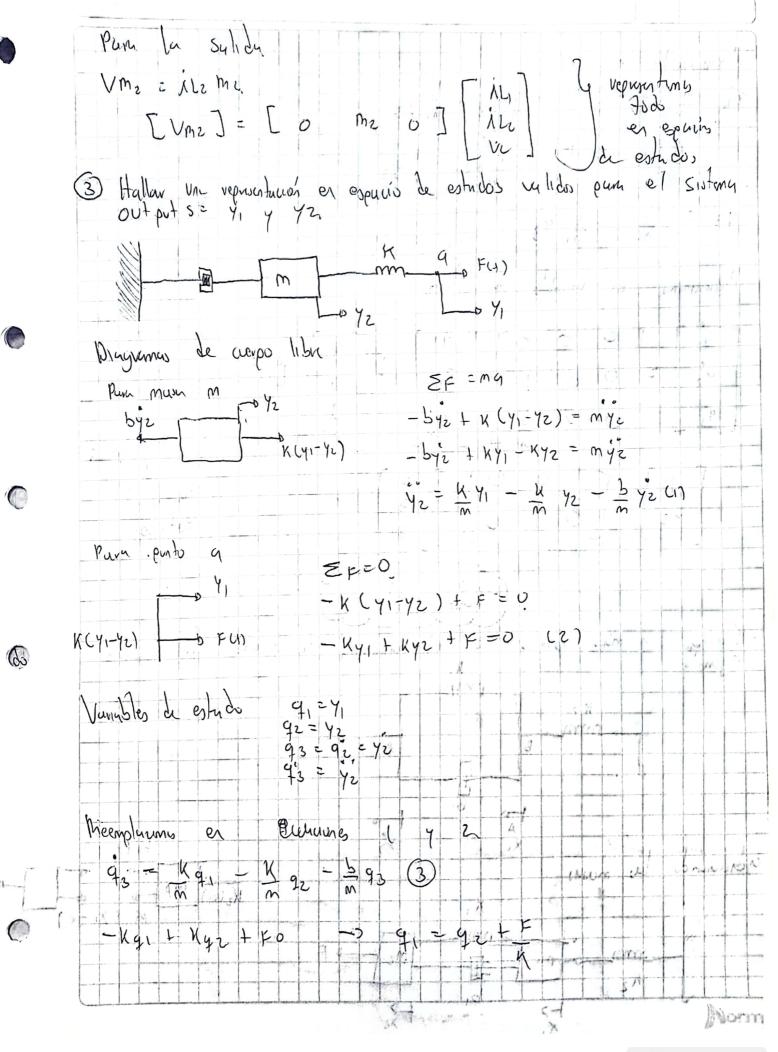
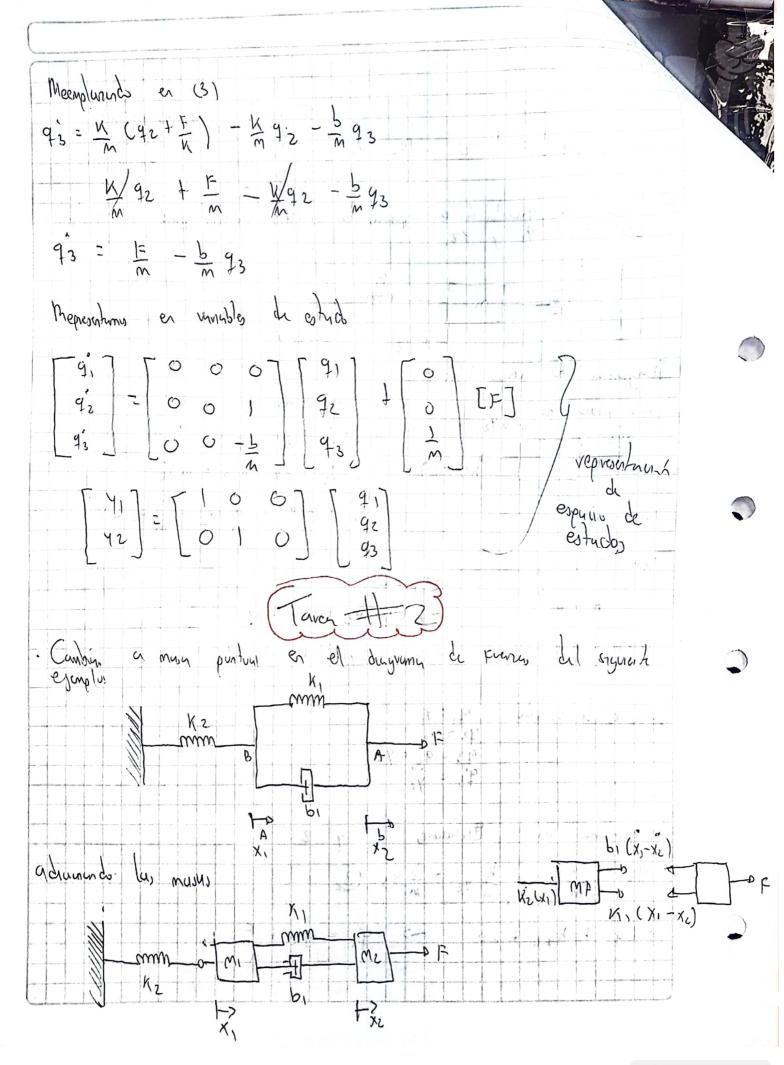
Brayon Moberto Pinnerto Palarios 20202005042. (Taven # 1) Concaun Paral # 1 1 Prepasentar en espacio de estados y hallor la ponción de transparación. X + X + 2x + X = 2 Fan (1) Vanables de estado Mecoplarand on (1) 93+93+292+9, = 2h q' = 20 - q, - 292 - 93 Representando en espucio de estados. $\begin{bmatrix} \dot{q}_1 \\ \dot{q}_2 \end{bmatrix} = \begin{bmatrix} 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix} \begin{bmatrix} \dot{q}_1 \\ \dot{q}_2 \end{bmatrix} + \begin{bmatrix} 0 \\ 0 \\ 1 \end{bmatrix} \begin{bmatrix} \dot{M} \end{bmatrix}$ $\begin{bmatrix} \dot{q}_1 \\ \dot{q}_3 \end{bmatrix} = \begin{bmatrix} -1 & -2 & -1 \end{bmatrix} \begin{bmatrix} \dot{q}_1 \\ \dot{q}_3 \end{bmatrix} + \begin{bmatrix} 0 \\ 1 \end{bmatrix} \begin{bmatrix} \dot{M} \end{bmatrix}$ [x] = [100] q_2 q_3 punción de transperoncia Aplicando transformada de laplace o la ecuano (nicia) 3 LLX] + 52 L[x] + 2 SL[x] + L[x] = 2 L[EL+1] [[x](S3+52+25+1) = 2[[F4]] L[x]= X3 L[41]= F5 Xs(s3+52+25+1)=2+5 X5 = 2 125 = 53+52+25+1 | Junuar de Linsperació





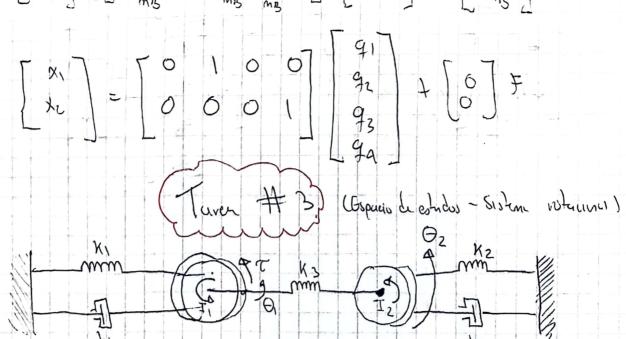


Emany: 1 -0x EF= M. a -Kex, + b, (x, -x2) + K, (x, -x2) = MA X1 $X_1 = \frac{-\kappa_{i} x_{i}}{m_{A}} + \frac{b_{i} x_{i}}{m_{A}} - \frac{b_{i} x_{i}}{m_{A}} + \frac{\kappa_{i} x_{i}}{m_{A}} - \frac{\kappa_{i} x_{i}}{m_{A}}$ (1) - b, (x, -x2) - K, (x1-x2) + F = MBY2 $\dot{X}_{2} = -\frac{b_{1}x_{1}}{m_{1}} + \frac{b_{1}x_{2}}{m_{1}} - \frac{x_{1}x_{1}}{m_{1}} + \frac{x_{1}x_{2}}{m_{2}} + \frac{F}{m_{8}}$ (2)

Meenplurum

$$q_{4} = -\frac{b_{1}q_{1}}{m_{B}} + \frac{b_{1}q_{4}}{m_{B}} + \frac{k_{1}q_{1}}{m_{B}} + \frac{k_{1}q_{3}}{m_{B}} + \frac{F}{m_{B}}$$
 (2)

$$\begin{bmatrix} q_1 \\ q_2 \\ q_1 \\ q_4 \end{bmatrix} = \begin{bmatrix} O & 1 & O & O \\ -\kappa_2 + \lambda_1 & b_1 & -k_1 & -b_1 \\ \hline mA & mA & mA \\ \hline mA & mA & mA \\ \hline mB & mB & mB \end{bmatrix} = \begin{bmatrix} q_1 \\ q_2 \\ q_3 \\ -b_1 - k_1 & O & k_1 \\ \hline mB & mB & mB \\ \end{bmatrix}$$



) hayrumy:

