Tara 3

$$\begin{vmatrix}
\partial & -\frac{1}{M} & -\frac{1}{M} \\
\partial & -\frac{1}{M} & -\frac{1}{M}
\end{vmatrix} = \begin{vmatrix}
\partial & -\frac{1}{M} & -$$

Taren 1

$$\dot{d} = -b\dot{d} - k\dot{d} + ap$$

$$\dot{d} = -\frac{b}{m}\dot{d} - \frac{k}{m}\dot{d} + \frac{a}{m}p$$

$$\begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix} = \begin{bmatrix} 0 \\ -\frac{E}{4} \\ -\frac{b}{4} \end{bmatrix} \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix} + \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix} P$$

Tarea \$2

1)
$$V_{i} = V_{RI} + V_{CI}$$

 $V_{i} = J_{1} \cdot R_{I} + V_{CI}$
 $V_{cs} = V_{R1} + V_{C2}$
 $V_{cs} = V_{R1} + V_{C2}$
 $V_{cs} = J_{2} R_{2} + V_{C2}$
 $V_{cs} \cdot C_{1} = J_{3} - J_{2}$
 $V_{cs} \cdot C_{1} = J_{1} - V_{cs}$
 $V_{cs} \cdot C_{1} = J_{1} - V_{cs}$
 $V_{cs} \cdot C_{1} = J_{1} - V_{cs}$

1)
$$V_{i} = V_{RI} + V_{CI}$$

 $V_{i} = I_{1} \cdot R_{1} + V_{CI}$.
 $V_{i} = I_{2} \cdot R_{1} + V_{CI}$.
 $V_{i} = I_{3} \cdot R_{1} + V_{CI}$.
 $V_{i} = I_{3} \cdot R_{1} + V_{CI}$.
 $V_{i} = I_{3} \cdot R_{2} + V_{CI}$.
 $V_{i} = I_{3} \cdot R_{2} + V_{CI}$.
 $V_{i} \cdot C_{1} = I_{3} - I_{2}$.
 $V_{i} \cdot C_{1} = I_{3} - V_{i} \cdot C_{2}$.
 $V_{i} \cdot C_{1} = I_{3} - V_{i} \cdot C_{2}$.
 $V_{i} \cdot C_{1} = I_{3} - V_{i} \cdot C_{2}$.

Despejo la derivada vias grande.

$$V_{Cs} = \frac{1}{R_s C_s} V_i - \frac{R_s \cdot C_s}{R_s C_s} V_z - \frac{1}{R_s C_s} V_{cs}$$
.

 $V_{Cc} = \frac{1}{R_z \cdot C_t} \cdot V_{cs} + \frac{1}{R_z \cdot C_c} \cdot V_{cs}$. Helo en $V_{cs} \cdot V_{cs}$

$$\dot{V}_{c_1} = \frac{1}{R_1 C_1} V_i - \frac{2i}{C_1 R_2 2i} V_{c_1} + \frac{L_i}{C_1 R_2 2i} V_{c_2} - \frac{1}{R_1 c_1} V_{c_3}$$

$$A = \begin{bmatrix} -\frac{1}{c_{1}n_{2}} - \frac{1}{n_{1}c_{1}} & \frac{1}{c_{1}n_{2}} \\ \frac{1}{n_{1}c_{2}} & -\frac{1}{n_{1}c_{1}} \end{bmatrix} \begin{bmatrix} V_{c1} \\ V_{c2} \end{bmatrix} B = \begin{bmatrix} \frac{1}{n_{1}c_{1}} \\ O \end{bmatrix} V_{i} \qquad C = \begin{bmatrix} 1 & O \end{bmatrix} \\ O = \begin{bmatrix} O \end{bmatrix}.$$