



$$MAT = \begin{pmatrix} y_{A} & 0 & -y_{A} & 0 \\ 0 & y_{B}+6 & -y_{B} & -6 \\ -y_{A} & -y_{B} & y_{A}+y_{B}+y_{c} & -y_{c} \\ 0 & -6 & -y_{c} & y_{e}+6 \end{pmatrix}$$

$$A \stackrel{j}{m} = \frac{V_{ij}}{V_{mm}} = \frac{V_0}{V_i} = N_{ij} no (m-m). N_{ij} no (i-j). \frac{y \stackrel{m}{m} m}{y \stackrel{m}{m} m}$$

$$A_V = Nigno(0-1) Nyno(3-1)$$
. $\frac{201}{201}$

$$A_{V} = -1 \cdot \frac{(-y_{A} - y_{C})}{(y_{A} + y_{B} + y_{C}) \cdot (y_{C} + G)} - y_{C}^{2}$$

$$y_{A} = \frac{1}{5L_{1}}$$

$$y_{B} = 5C$$

$$y_{C} = \frac{1}{5L_{2}}$$

$$G = y_{R}$$

$$A_{V} = \frac{-y_{A}y_{c}}{(y_{4}+y_{6}+y_{c})(y_{c}+6)-y_{c}^{2}}$$

$$A_{V} = \frac{1}{5^{2} L_{1} L_{2}}$$

$$\frac{1}{5^{2} L_{1} L_{2}} + \frac{1}{5 L_{1} R} + \frac{c}{L_{2}} + \frac{sc}{R} + \frac{1}{5^{2} L_{2}^{2}} + \frac{1}{5 L_{2} R} - \frac{1}{5^{2} L_{2}^{2}}$$

$$\frac{R + 5 L_{2} + 5^{2} L_{1} R C + 5^{3} c L_{1} L_{2} + 5 L_{1}}{5^{2} L_{1} L_{2} R}$$

$$A_{V} = \frac{-R_{cl_{1}}L_{2}}{5^{3} + 5^{2} \cdot \frac{R}{L_{2}} + 5 \cdot \frac{(L_{1}+L_{2})}{(L_{1}L_{2})} + \frac{R}{cl_{1}L_{2}}}$$

Tendria que ver esto del signo