Mallas ec 2

i, (RI+R2+R5) - R2i3 - R111 - F1 + F2 = 0

Malla ec 3

R3 - 12. R2 + 13 (R2+R3+R4) - 11. R4-F2+F3=\$

V Malla ec 1

-y.R1-13R4+11 (R1+R4+R6)+==0

Forma Matricial

151, -412-413 = -15

$$-4i_{1} + 11i_{2} - 3i_{3} = -1 \Rightarrow \begin{bmatrix} 15 & -4 & -4 \\ -4i_{1} & -3i_{2} + 17i_{3} = 4 \end{bmatrix} \Rightarrow \begin{bmatrix} 15 & -4 & -4 \\ -4 & 11 & -3 \\ -4 & -3 & 17 \end{bmatrix} \begin{bmatrix} i_{1} \\ i_{3} \end{bmatrix} = \begin{bmatrix} -1 \\ 4 \end{bmatrix}$$

$$R^{-1} = \begin{cases} 89/1063 & 40/1063 & 28/1063 \\ 40/1063 & 239/2126 & 61/2126 \end{cases} \begin{cases} 9/12 \approx -0.562 \text{ A} \\ 1/2 \approx -0.562 \text{ A} \\ 1/2 \approx -0.143 \text{ A} \end{cases}$$

$$\frac{1}{28/1063} = \frac{1}{2126} = \frac{1}{49/2126}$$

$$\begin{cases} \hat{1}_1 \approx -1.188 \text{ A} \\ \hat{1}_2 \approx -0.562 \text{ A} \end{cases}$$
 $\begin{cases} \hat{1}_3 \approx -0.143 \text{ A} \end{cases}$

$$\begin{bmatrix} 1 \\ 1 \\ 2 \end{bmatrix} = \begin{bmatrix} 89/1063 & 40/1063 & 28/1663 \\ 40/1063 & 239/2126 & 61/2126 \\ 28/1063 & 61/2126 & 149/2129 \end{bmatrix} = \begin{bmatrix} -1263/1063 \\ -1195/2126 \\ -305/2126 \end{bmatrix}$$