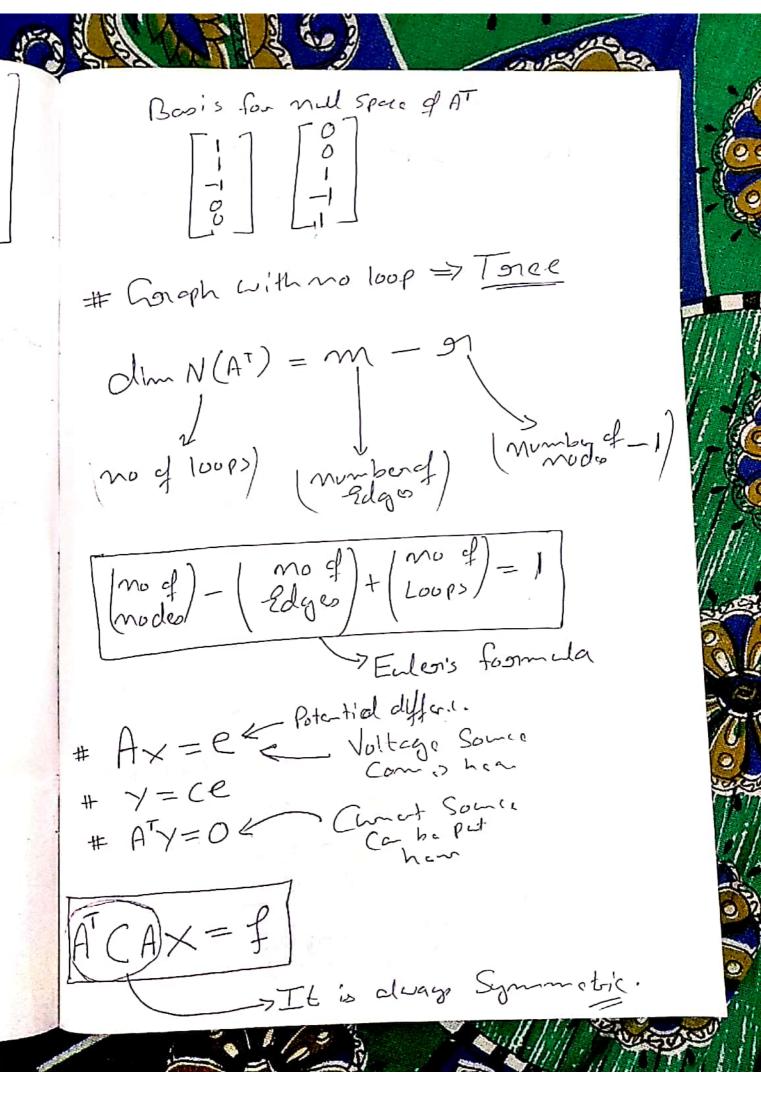


 $A_{x} = \begin{bmatrix} -1 & 1 & 0 & 0 \\ 0 & -1 & 1 & 0 \\ -1 & 0 & 1 & 0 \\ 0 & 0 & -1 & 1 \end{bmatrix} \begin{bmatrix} x_{1} \\ x_{2} \\ x_{3} \\ x_{3} \\ x_{3} \\ x_{3} \\ x_{4} \\ x_{5} \\ x_{4} \\ x_{5} \\ x_{4} \\ x_{5} \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{bmatrix}$ X= X, , X2 , X3 X4 as potential at modes (x2-X1) (x3-X2) --cos potentid diffuer a
conors adges  $\times = C \left( \frac{1}{1} \right) \cdot dim N(A) = 1$ Ranki=3 # } y, y\_ --- ys be the Curents on the edges. Curent ATy=0 [Kinchhof's Law]



0