

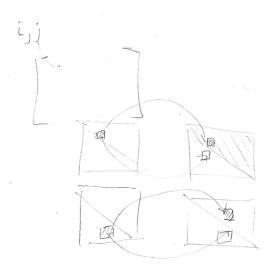
Matrix Grenerated by function:
$$(5+7+4)I_1+7I_2=9$$

$$7I_1+(6+7+3+8)I_2=0$$

$$\begin{bmatrix} 16&7\\7&1\\1&24\end{bmatrix}I_1=0$$

$$I_1=0.645$$

$$I_2=0.188$$
A solved from function's matrix



Lu Decomposition

Find LV in A = LU $L = \begin{bmatrix} 16 & 0 \\ 7 & 335/16 \end{bmatrix}$ $U = \begin{bmatrix} 1 & 7/16 \\ 0 & 1 \end{bmatrix}$

Solution by hand:

$$VL$$
 Mugh 1:
 $9 = 5I_1 + 7(I_1 - I_2) + 4I_1$
Mesh 2:
 $6I_2 + 8I_2 + 3I_2 + 7(I_2 - I_1) = 0$
Rolving the system yields
 $I_1 = 0.645$
 $I_2 = 0.188$