$$ORIGIN = 1$$
 $j = \sqrt{-1}$

$$Z \coloneqq \begin{bmatrix} 12\mathbf{j} \\ 56 + 33\mathbf{j} \\ 81 - 52\mathbf{j} \\ 79 \\ 39 - 21\mathbf{j} \\ 43 - 26\mathbf{j} \end{bmatrix} \quad E \coloneqq \begin{bmatrix} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 11 \cdot e^{j \cdot 246^{(0)}} \end{bmatrix} \qquad J \coloneqq \begin{bmatrix} 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{bmatrix}$$

$$ZD \coloneqq \operatorname{diag}(Z) \qquad G \coloneqq \frac{1}{ZD} \qquad ZD = \begin{bmatrix} 12\mathbf{i} & 0 & 0 & 0 & 0 & 0 \\ 0 & 56 + 33\mathbf{i} & 0 & 0 & 0 & 0 \\ 0 & 0 & 81 - 52\mathbf{i} & 0 & 0 & 0 \\ 0 & 0 & 0 & 79 & 0 & 0 \\ 0 & 0 & 0 & 0 & 39 - 21\mathbf{i} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 43 - 26\mathbf{i} \end{bmatrix}$$

$$A \coloneqq \begin{bmatrix} -1 & 1 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 1 & 1 & -1 \\ 1 & 0 & 1 & -1 & 0 & 0 \end{bmatrix} \qquad \qquad B \coloneqq \begin{bmatrix} -1 & -1 & 1 & 0 & 0 & 0 \\ 0 & 0 & -1 & -1 & 0 & -1 \\ 1 & 0 & 0 & 1 & -1 & 0 \end{bmatrix}$$

$$\Phi := (A \cdot G \cdot A^{\mathrm{T}})^{-1} \cdot (-A \cdot G \cdot E - A \cdot J) \qquad \Phi = \begin{bmatrix} 0.839 + 3.865i \\ 2.508 + 6.171i \\ 1.067 + 4.259i \end{bmatrix}$$

$$U := A^{\mathrm{T}} \cdot \Phi$$

 $U^{\mathrm{T}} = \begin{bmatrix} 0.228 + 0.394 \mathrm{i} & 0.839 + 3.865 \mathrm{i} & 1.067 + 4.259 \mathrm{i} & 1.441 + 1.912 \mathrm{i} & 1.669 + 2.306 \mathrm{i} & -2.508 - 6.171 \mathrm{i} \end{bmatrix}$

$$IR := G \cdot (U+E)$$

$$IR = \begin{bmatrix} 0.033 - 0.019i \\ 0.041 + 0.045i \\ -0.015 + 0.043i \\ 0.018 + 0.024i \\ 0.008 + 0.064i \\ 0.027 + 0.088i \end{bmatrix}$$