$R1 := 57 \quad R2 := 14 \quad R3 := 48 \quad R4 := 0 \quad R5 := 65 \quad R6 := 0 \quad R7 := 0 \quad R8 := 0$

$Xl1 := 0 \quad Xl2 := 0 \quad Xl3 := 0 \quad Xl4 := 31 \quad Xl5 := 0 \quad Xl6 := 29 \quad Xl7 := 28 \quad Xl8 := 36$

$Xc1 := 83 \quad Xc2 := 0 \quad Xc3 := 23 \quad Xc4 := 0 \quad Xc5 := 0 \quad Xc6 := 91 \quad Xc7 := 0 \quad Xc8 := 19$

$E6м := 67 \quad E6a := 214$

$Z1 := R1 + 1\mathrm{j}\ (-Xc1) = 57 - 83\mathrm{j}$

$Z2 := R2 = 14$

$Z34 := R3 + 1\mathrm{j}\ (Xl4 - Xc3) = 48 + 8\mathrm{i}$

$Z56 := R5 + 1\mathrm{j}\ (Xl6 - Xc6) = 65 - 62\mathrm{i}$

$Z7 := 1\mathrm{j}\ (Xl7) = 28\mathrm{i}$

$Z8 := 1\mathrm{j}\ (Xl8 - Xc8) = 17\mathrm{i}$

$E := E6м \cdot e^{1\mathrm{j} \cdot E6a^{\circ}} = -55.546 - 37.466\mathrm{j} \qquad E = 67\angle -146^{\circ}$

$$Z := \begin{bmatrix} Z1 \\ Z2 \\ Z34 \\ Z56 \\ Z7 \\ Z8 \end{bmatrix} \qquad RD := \mathrm{diag}(Z) \qquad E := \begin{bmatrix} 0 \\ 0 \\ 0 \\ E \\ 0 \\ 0 \end{bmatrix}$$

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

$$Ik := \left(B \cdot RD \cdot B^{\mathrm{T}}\right)^{-1} (B \cdot E) = \begin{bmatrix} 0.433 + 0.615\mathrm{i} \\ 0.025 + 0.308\mathrm{i} \\ 0.551 + 0.56\mathrm{i} \end{bmatrix}$$

$$I := B^{\mathrm{T}} \cdot Ik = \begin{bmatrix} 0.118 - 0.055\mathrm{i} \\ 0.526 + 0.253\mathrm{i} \\ -0.025 - 0.308\mathrm{i} \\ -0.433 - 0.615\mathrm{i} \\ -0.408 - 0.308\mathrm{i} \\ 0.551 + 0.56\mathrm{i} \end{bmatrix}$$