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

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

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

$$E6м := 67 \quad E6a := 214$$

$$Z1 := R1 + 1j\,(-Xc1) = 57 - 83j$$

$$Z2 := R2 = 14$$

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

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

$$Z7 := 1j\,(Xl7) = 28i$$

$$Z8 := 1j\,(Xl8 - Xc8) = 17i$$

$$E := E6м \cdot e^{1j \cdot E6a°} = -55.546 - 37.466j$$

$$A := \begin{bmatrix} -1 & 0 & 0 & 1 & 0 & 1 \\ 1 & -1 & 0 & 0 & -1 & 0 \\ 0 & 1 & -1 & 0 & 0 & -1 \\ -Z1 & 0 & 0 & -Z56 & -Z7 & 0 \\ 0 & -Z2 & -Z34 & 0 & Z7 & 0 \\ Z1 & Z2 & 0 & 0 & 0 & Z8 \end{bmatrix}$$

$$B := \begin{bmatrix} 0 \\ 0 \\ 0 \\ -E \\ 0 \\ 0 \end{bmatrix} \qquad B = \begin{bmatrix} 0 \\ 0 \\ 0 \\ 55.546 + 37.466i \\ 0 \\ 0 \end{bmatrix}$$

$$I := A^{-1} \cdot B = \begin{bmatrix} 0.118 - 0.055i \\ 0.526 + 0.253i \\ -0.025 - 0.308i \\ -0.433 - 0.615i \\ -0.408 - 0.308i \\ 0.551 + 0.56i \end{bmatrix} \qquad \begin{bmatrix} I1 \\ I2 \\ I34 \\ I56 \\ I7 \\ I8 \end{bmatrix} := I$$

$$I1 = 0.118 - 0.055i \qquad I2 = 0.526 + 0.253i \qquad I34 = -0.025 - 0.308i$$

$$I56 = -0.433 - 0.615i \qquad I7 = -0.408 - 0.308i \qquad I8 = 0.551 + 0.56i$$

$$Si := E \cdot \overline{I56} = 47.129 - 17.941\mathrm{i} \qquad Pi := \mathrm{Re}\,(Si) = 47.129 \qquad Qi := \mathrm{Im}\,(Si) = -17.941$$