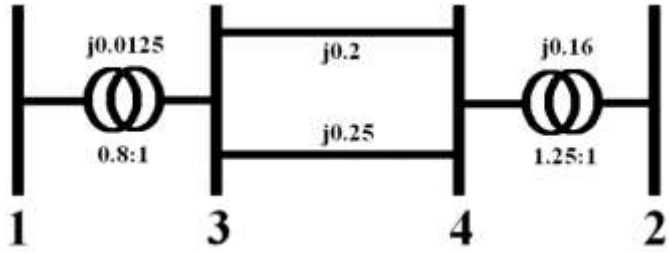
Example: For the network below calculate the bus admittance matrix. Reactances of individual network elements are in per units by using the same MVA base.



Note: Transformer reactances are located close to buses no. 1 and no. 2. Tap ratios are real numbers, i.e. with zero tap angle.

[Solution: $\underline{\bar{A}} = j\begin{bmatrix} -80 & 0 & 64 & 0 \\ 0 & -6.25 & 0 & 5 \\ 64 & 0 & -60.2 & 9 \\ 0 & 5 & 9 & -13 \end{bmatrix} pu$