

2. Determine, using the values given in TABLE A, the current I in the circuit of FIGURE 2 by:

(a) mesh analysis

(b) nodal analysis.

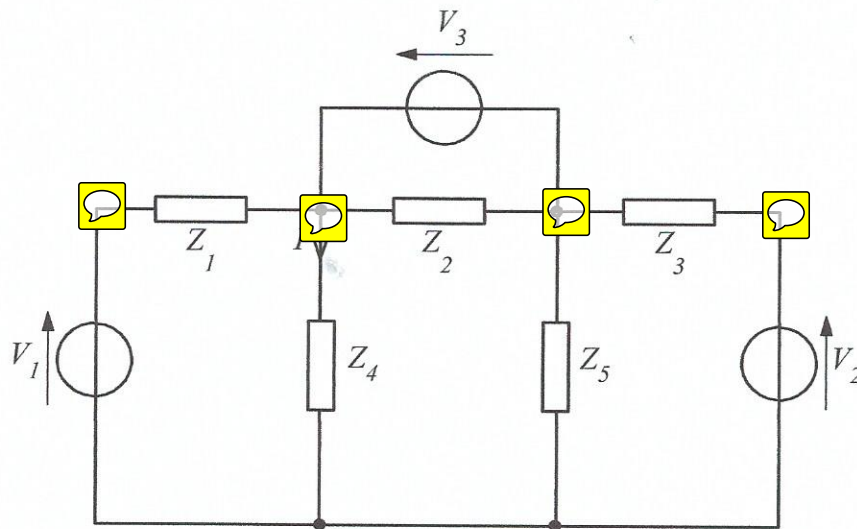


FIG. 2

V_1	$120\angle 0^\circ \text{ V}$
V_2	$120\angle 90^\circ \text{ V}$
V_3	$20\angle 45^\circ \text{ V}$
Z_1	2Ω
Z_2	$-j5 \Omega$
Z_3	4Ω
Z_4	$-j5 \Omega$
Z_5	$j4 \Omega$

TABLE A