

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.

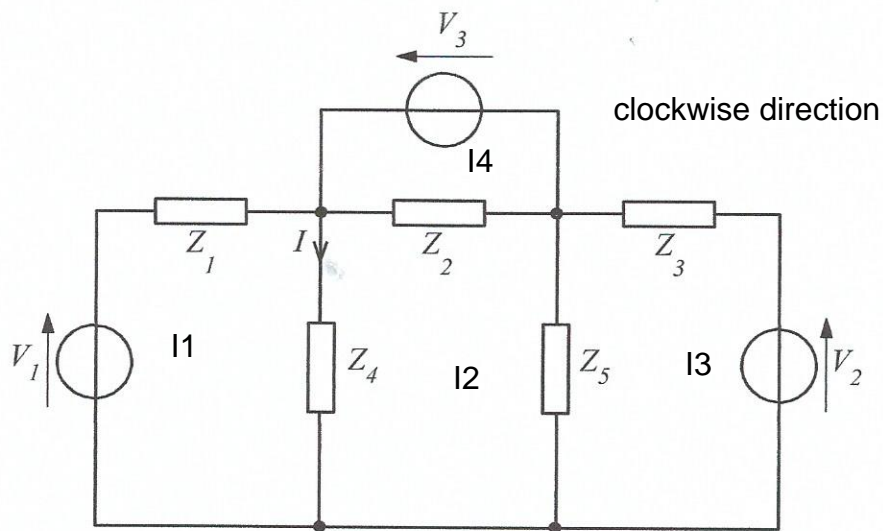


FIG. 2

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

TABLE A