

TUTE-08
Network Analysis and Synthesis (UEE 503)
Department of Electrical and Instrumentation Engineering

- Q1. Fig. 1 shows a resistive T and resistive π network connected in parallel. Find the overall Y-parameters of the combination. **(33/14, -15/14, -15/14, 45/14)**

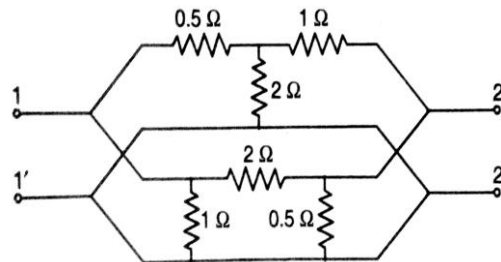


Fig. 1

- Q2. Two networks are shown in Fig. 2. Obtain the transmission parameters of the resulting circuits when both the circuits are in cascade. **(69, 400, 5, 29)**

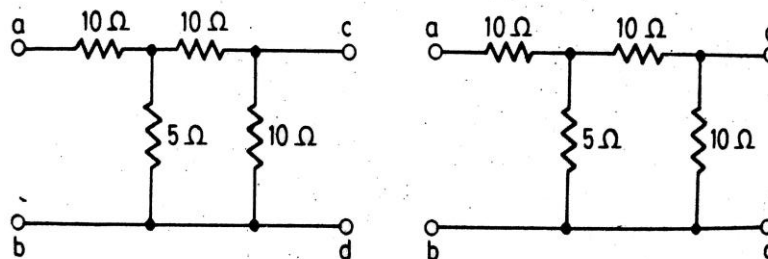


Fig. 2

- Q3. Find driving point impedance of the network shown in Fig. 3 **$[2(s+1)/(2s^2+5s+4)]$**

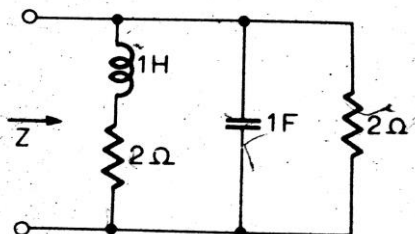


Fig. 3

- Q4. In the network shown in Fig. 4, find V_c/V . Also find the pole zero locations. **$[2/(4s^2+s+2)]$**

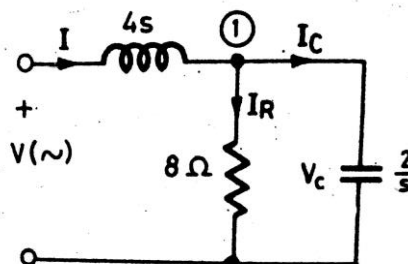


Fig. 4