

2.52 Find R_{AB} in the circuit in Fig. P2.52.

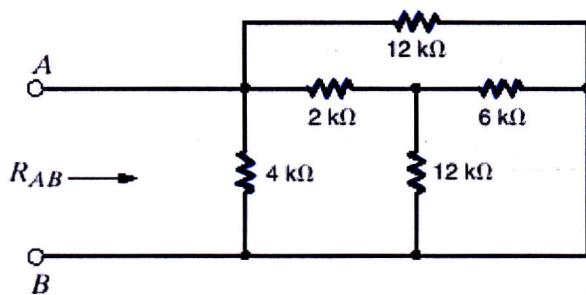
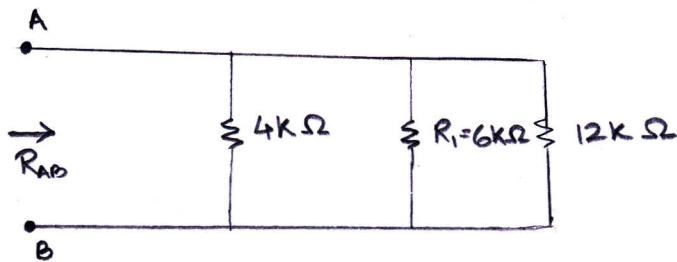


Figure P2.52

SOLUTION:

$$R_1 = (12\text{k} \parallel 6\text{k}) + 2\text{k}$$

$$R_1 = 6\text{k} \Omega$$



$$R_{AB} = (4\text{k} \parallel 6\text{k}) \parallel 12\text{k}$$

$$R_{AB} = 2.4\text{k} \parallel 12\text{k}$$

$$R_{AB} = 2\text{k} \Omega$$