PROBLEM 1

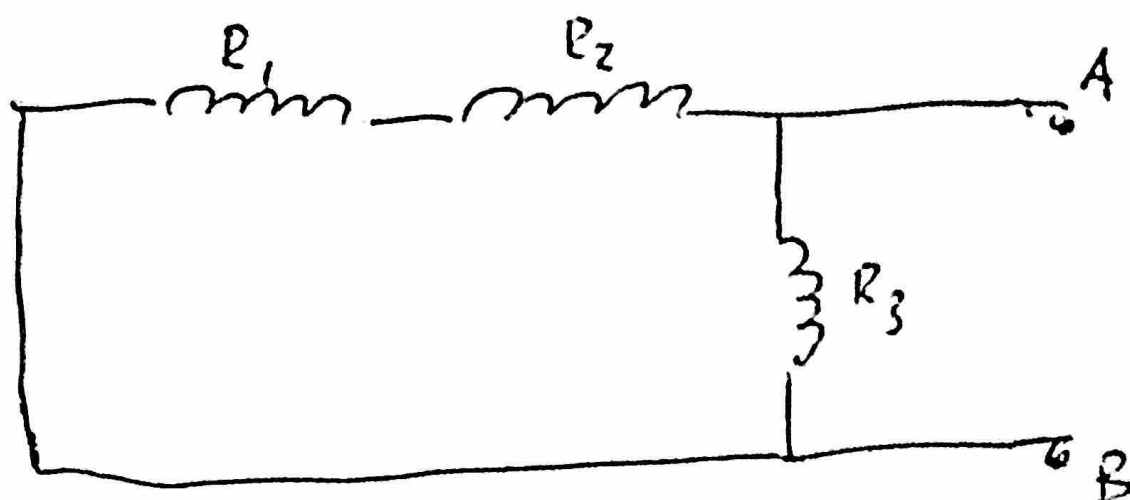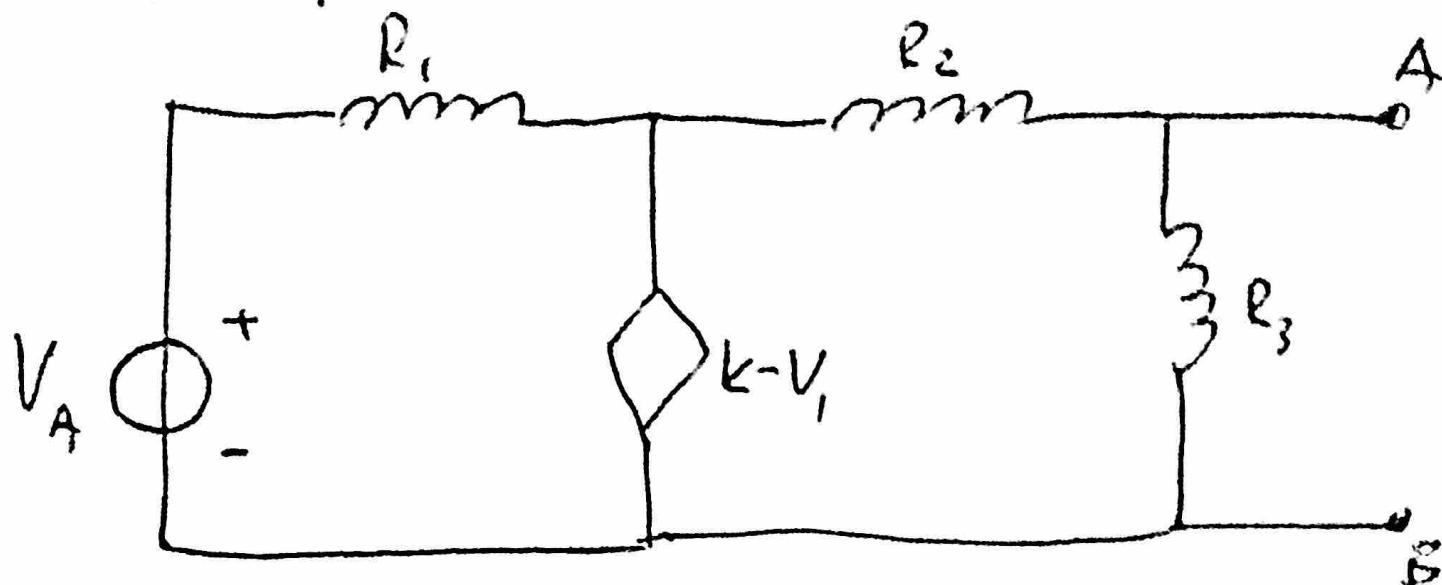$$R_{TH} = R_3 // (R_1 + R_2) \Rightarrow \frac{R_3 \cdot (R_1 + R_2)}{R_1 + R_2 + R_3}$$