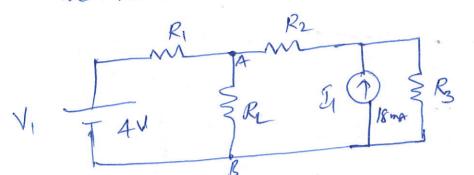
1) For the circuit shown below, calculate the valued Ply (in them) such that the power delivered to the reinto is maximised

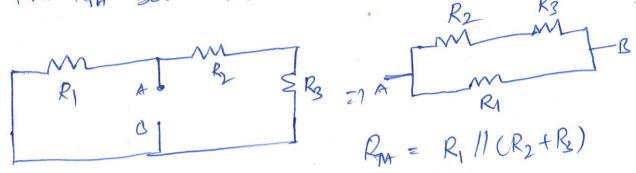


$$R_2 = 7kx$$

$$R_3 = 9kx$$

$$R_1 = 2kx$$

To find RTH Setwen A and B rodes:



To find Vpg: Use Source transformation.

 $V_1 = \begin{cases} 1 & R_2 \\ R_1 & R_2 \end{cases}$ $\begin{cases} 1 & R_2 \\ R_3 & R_4 \end{cases}$ $\begin{cases} 1 & R_2 \\ 1 & R_4 \end{cases}$ $\begin{cases} 1 & R_2 \\ 1 & R_4 \end{cases}$ $\begin{cases} 1 & R_4 \\ 1 & R_$

RUC VI = [R₁ + Vpu =] Vpu = VI - [R₁=95] = -8.64mA R₁ = R₁ = 2 Vm = 70.51 mw