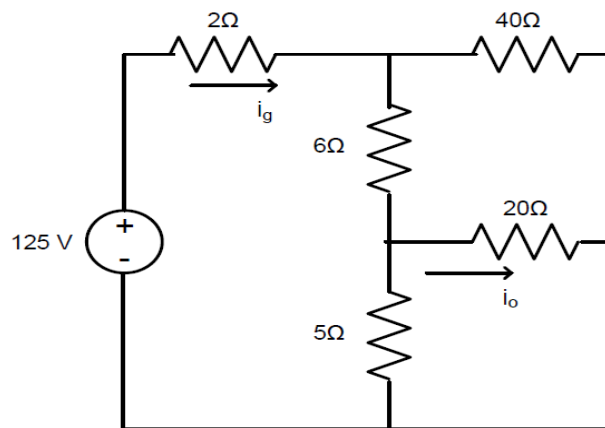


Sheet 1: Electric Circuits Revision

Problem 1:

Find i_o and i_g in the circuit shown?

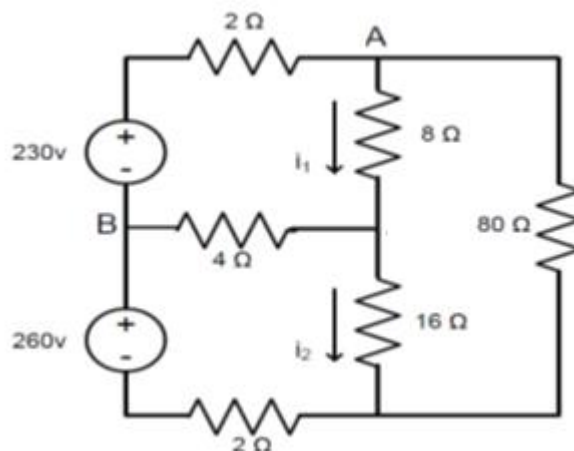
(Ans. $i_o=2.5\text{A}$, $i_g=12.5\text{A}$)



Problem 2:

Using KCL and KVL, find i_1 , i_2 , V_{AB} ?

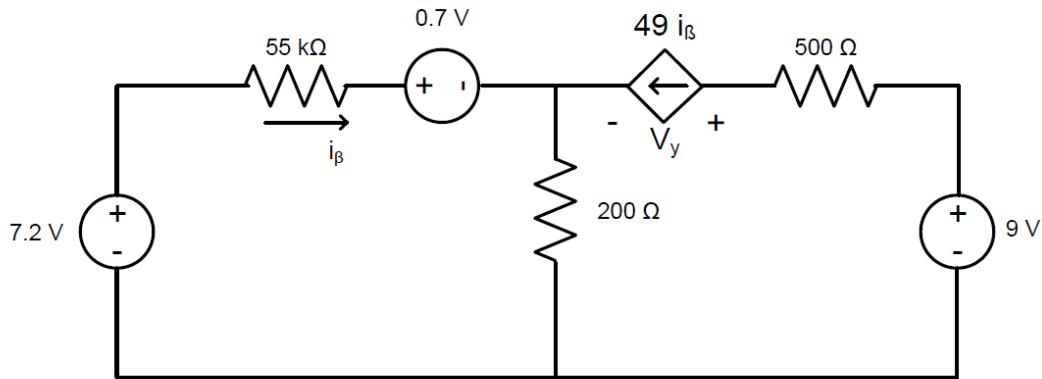
(Ans. $i_1=20\text{A}$, $i_2=15\text{A}$, $V_{AB}=180\text{V}$)



Problem 3:

Find the voltage V_y in the circuit shown?

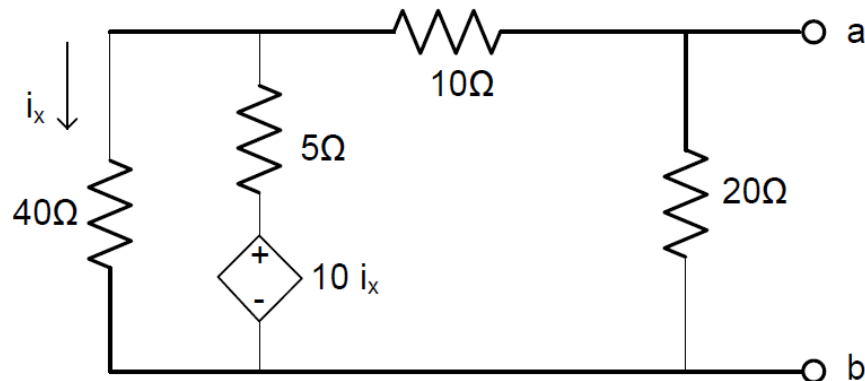
(Ans. $V_y=5.55V$)



Problem 4:

For the circuit shown, Find Thevenin Equivalent circuit for the ports a, b?

(Ans. $R_{th}=8.8\Omega$, $V_{th}=0V$)



Problem 5:

Find the transfer function V_{out}/V_{in} for the circuits shown?

