

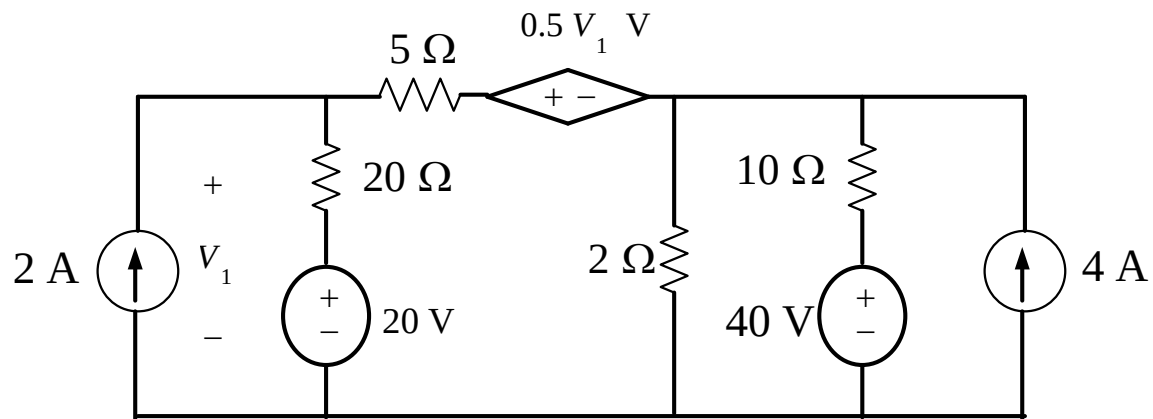
EE 202-Fall 2012(121)

HW3

Dr. Adil S. Balghonaim

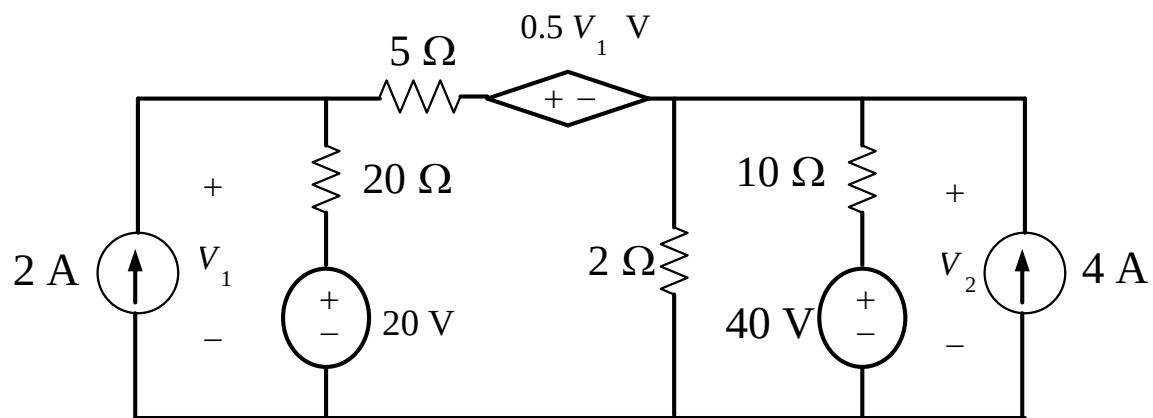
Due 5/11/2012

Q1



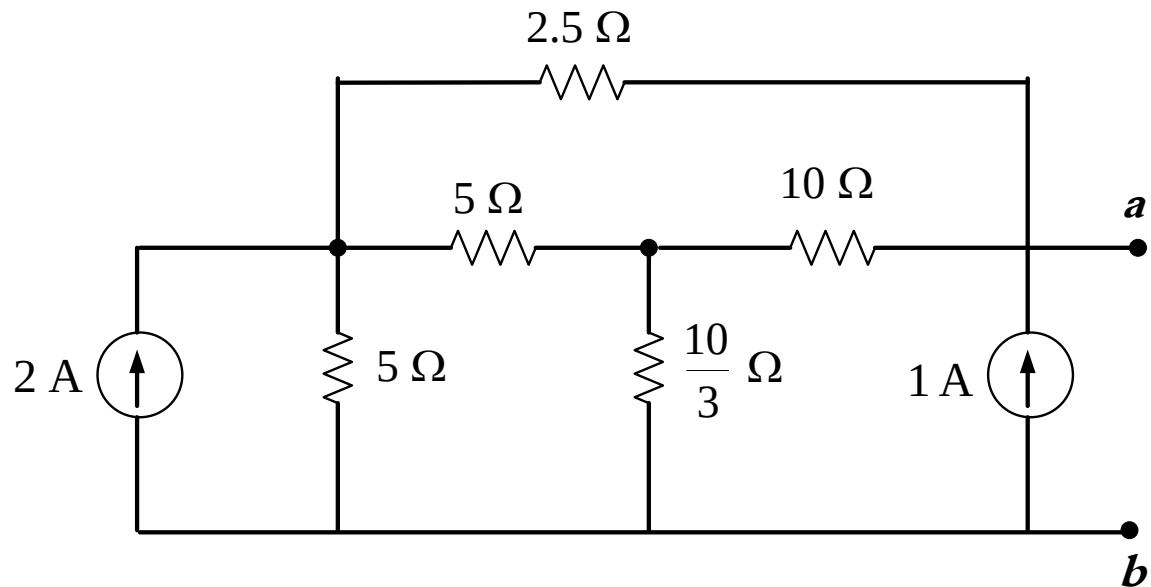
Use **Mesh Analysis** to find the power absorbed by the $2\ \Omega$, $P_{2\Omega}$?

Q2



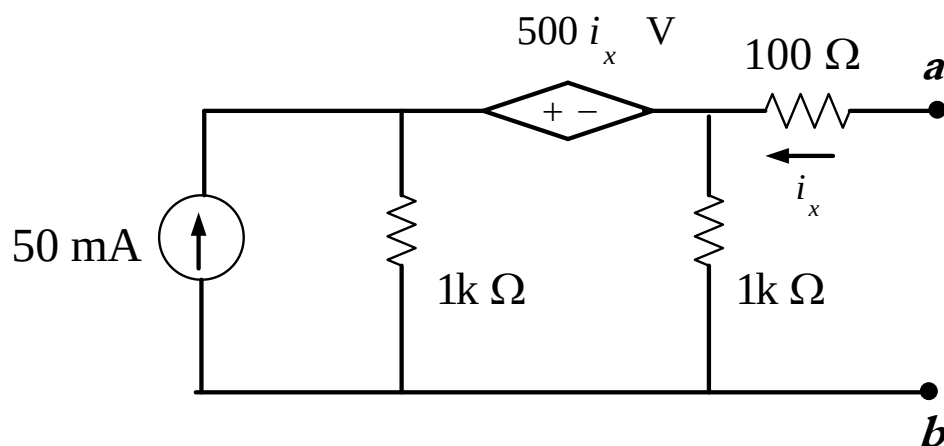
Use **Source Transformation** to find V_1 , V_2 ?

Q3



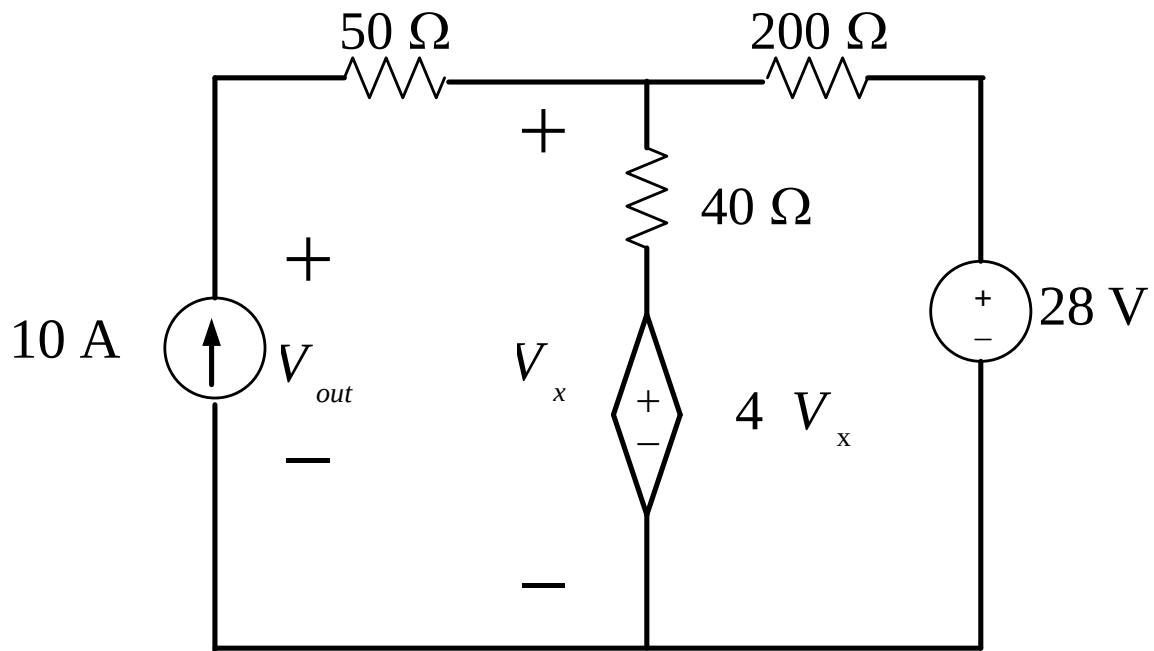
- Find the **Thevenin Equivalent** between **a** and **b** ?
- What is the value of the load that when connected between **a** and **b** will absorb **the maximum power** ?
- what is the maximum power for the load in part (b) ?

Q4



Find the **Norton Equivalent** between **a** and **b** directly (Find the short circuit current directly) ?

Q5



Use The principle of **superposition** to find V_{out} ?