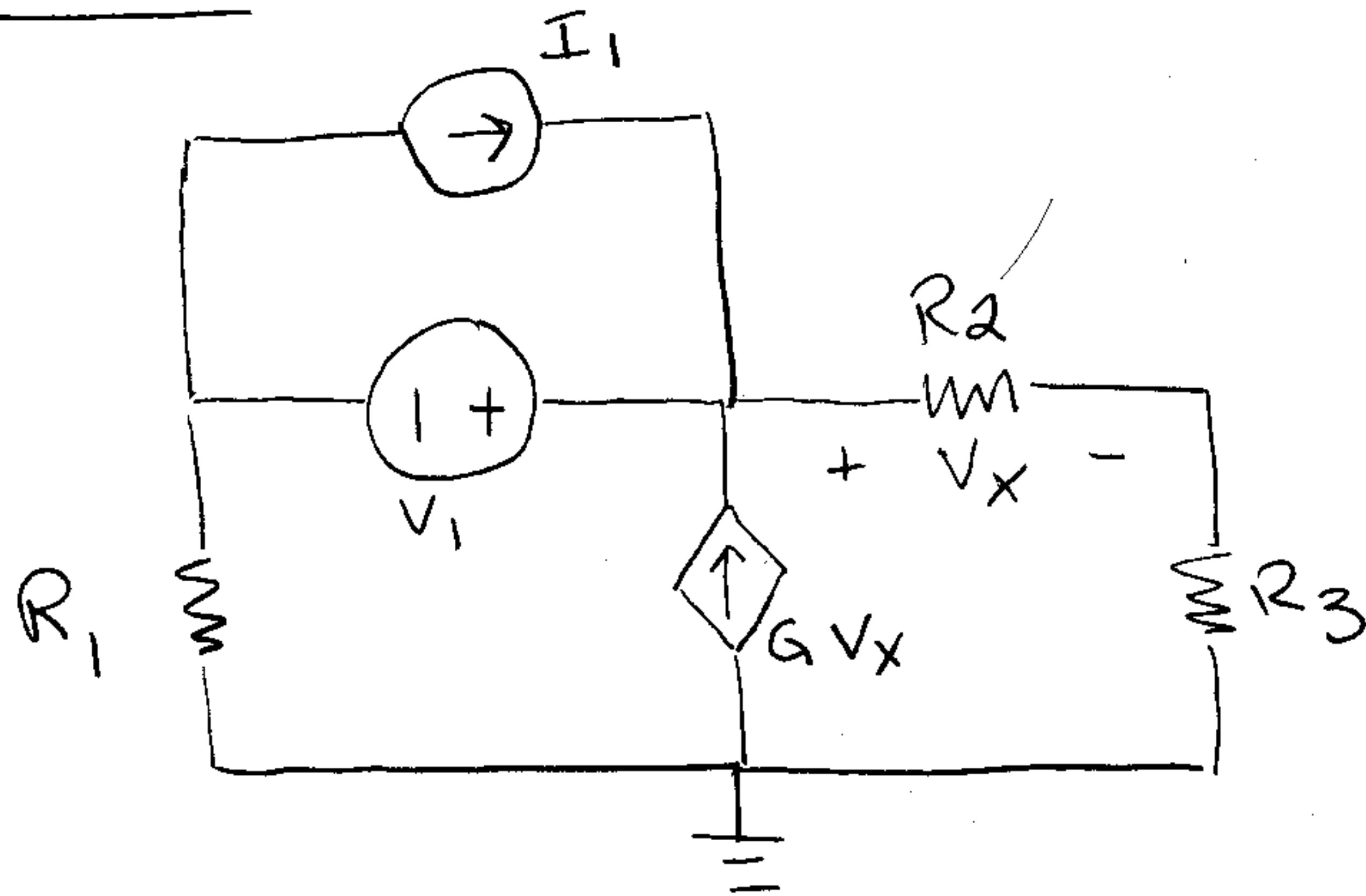


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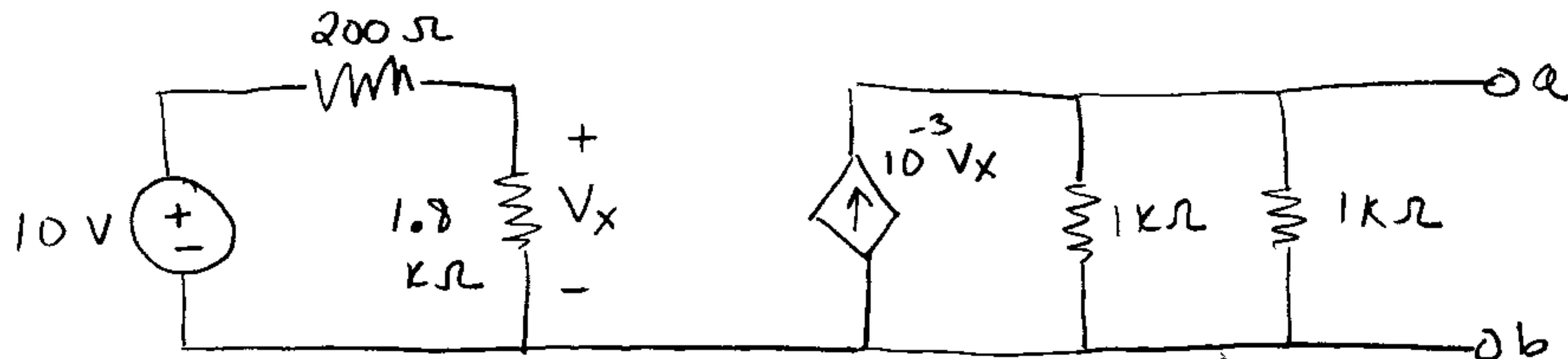
Homework #2 - Due 2/19/04

Problem 1:



Label the nodes with unknown voltages, and write the nodal analysis equations (you do not need to solve for the unknown voltages).

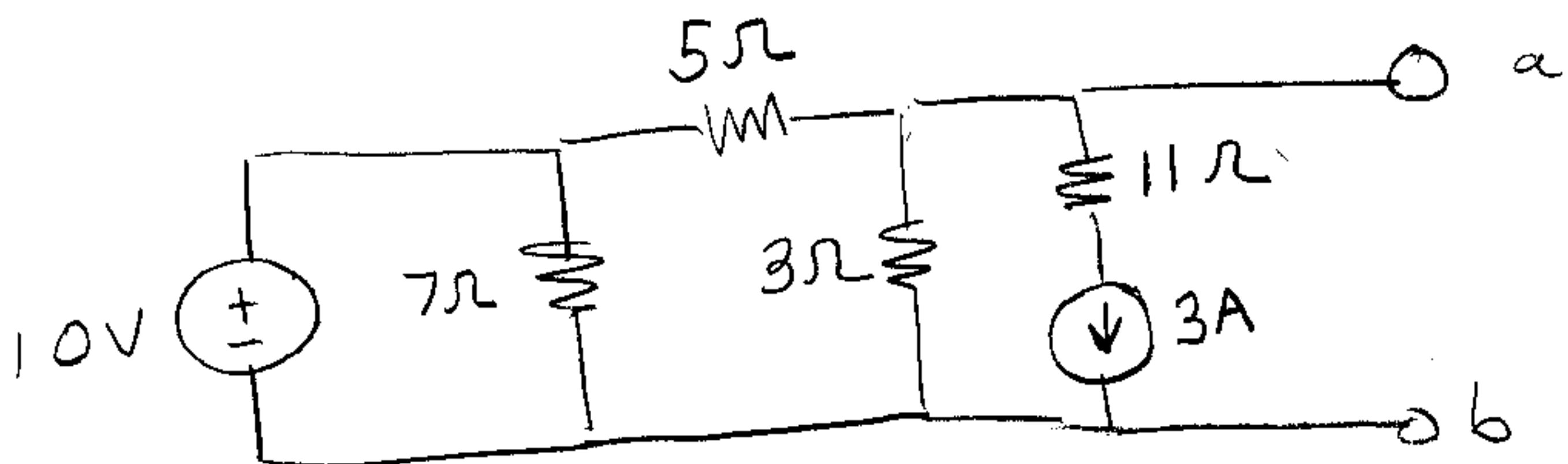
Problem 2:



Find the Thevenin and Norton equivalents.
(P.S. This is a model of a transistor.)

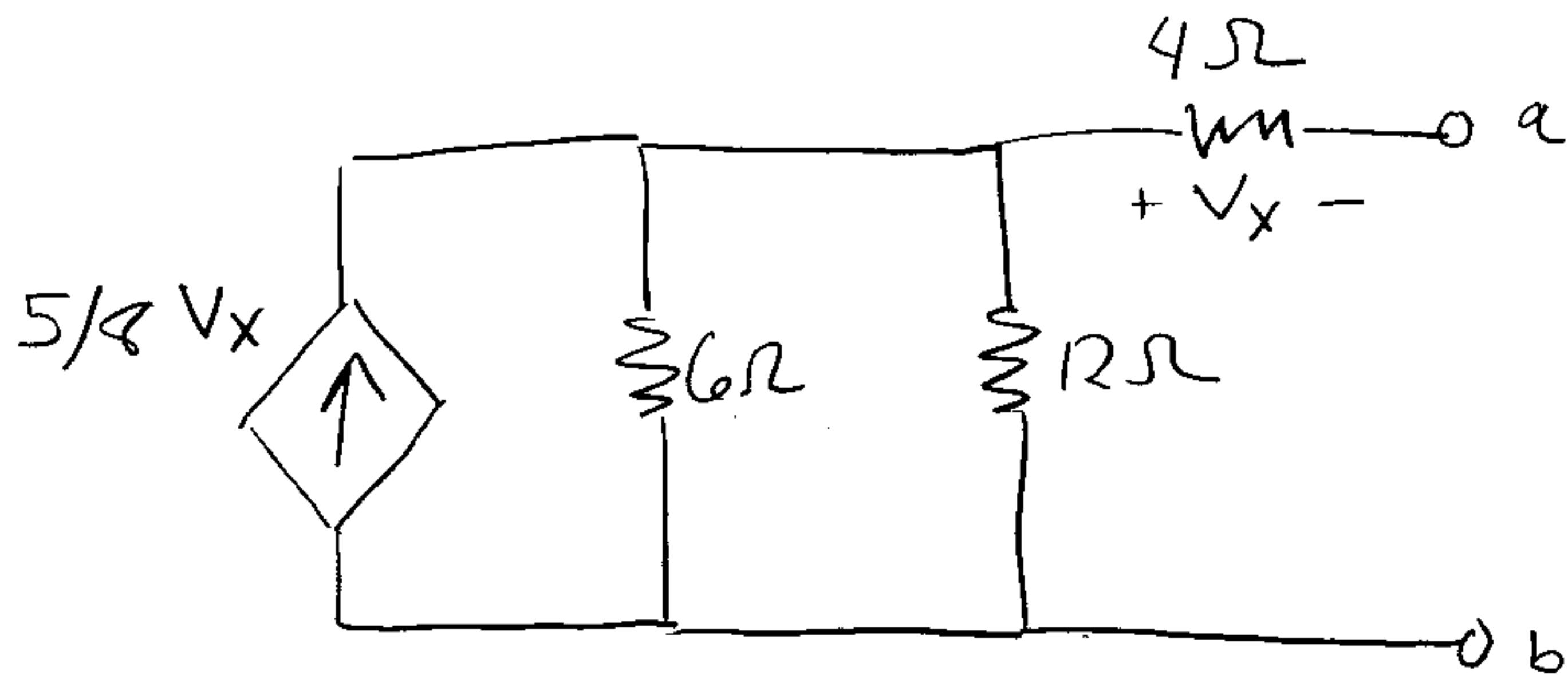
Problem 3:

(2)



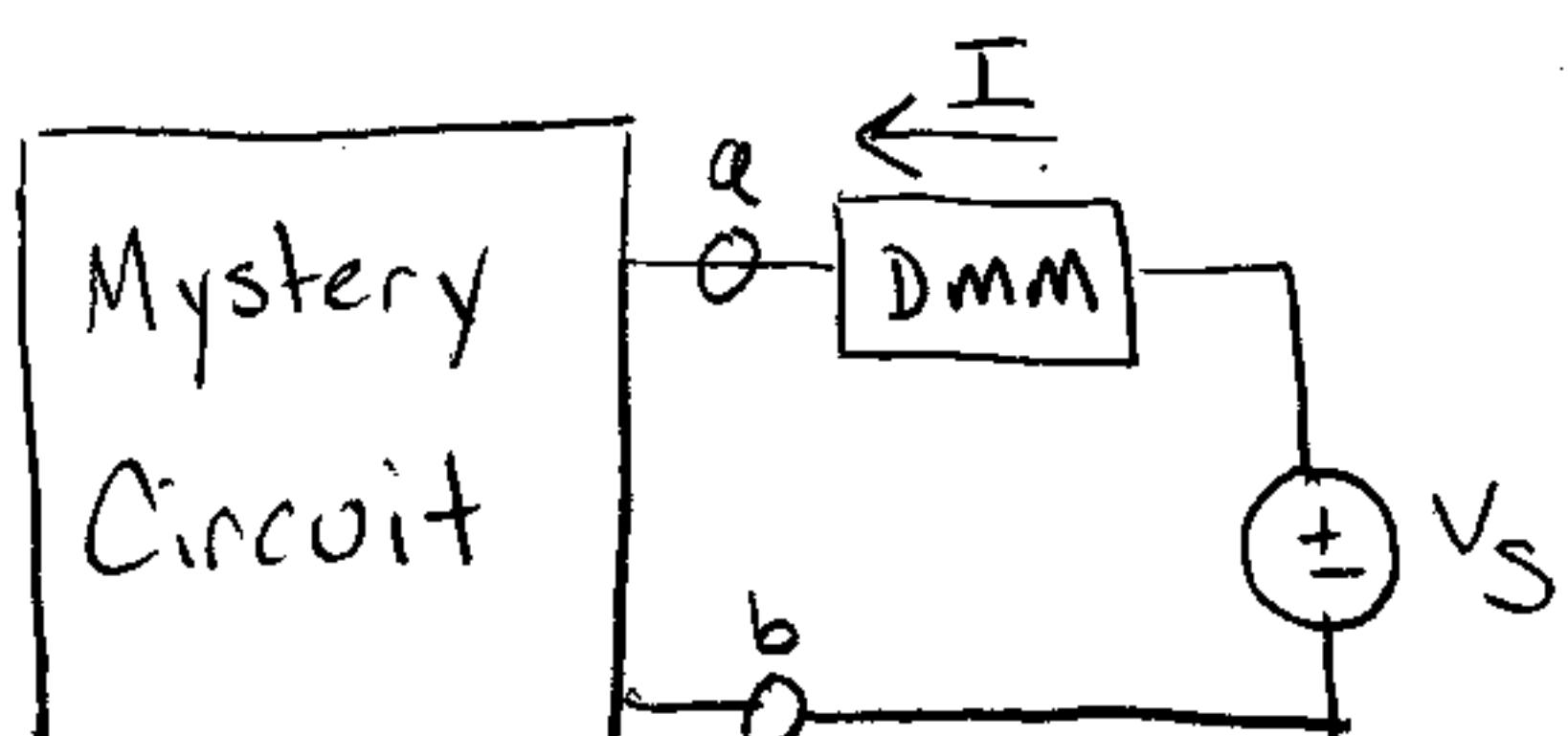
Find the Thevenin and Norton equivalents.

Problem 4:



Find the Thevenin and Norton equivalents.

Problem 5:



To see what my "mystery circuit" is, I perform two tests:

- 1) with V_s set to 0V, the DMM measures I to be 1A.
- 2) With V_s set to 10V, the DMM measures I to be 3A.

The DMM has a resistance of 1Ω . Find the Thevenin and Norton equivalents of the mystery circuit.