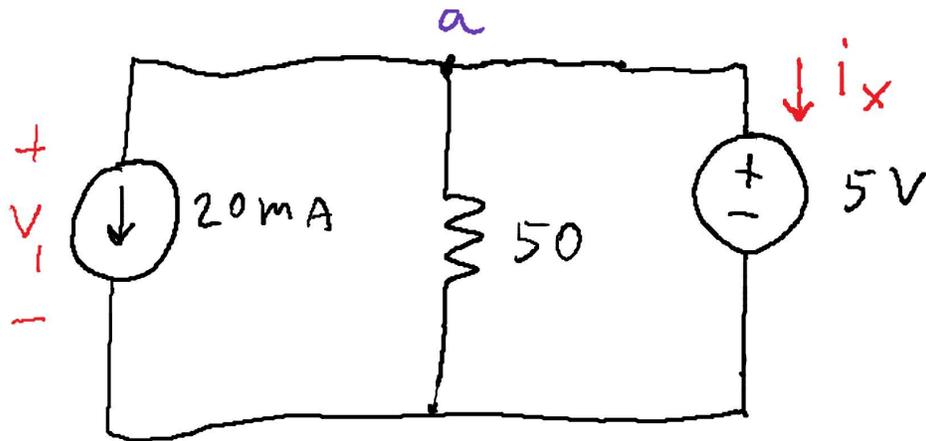


(a) Write KCL equation of the node a starting from the leftmost branch and progress in order. Use a convention that a current entering a node is positive. Also, use the variables defined in the figure (e.g., i_x).

(b) Find i_x .

(c) Find v_1 .



Write your answers in the following format:

Qa: $10 + 10 i_1 - 10 + 0.1 v_1 + 40 = 0$
Qb. $i_x = 10A$
Qc. $v_1 = 0V$