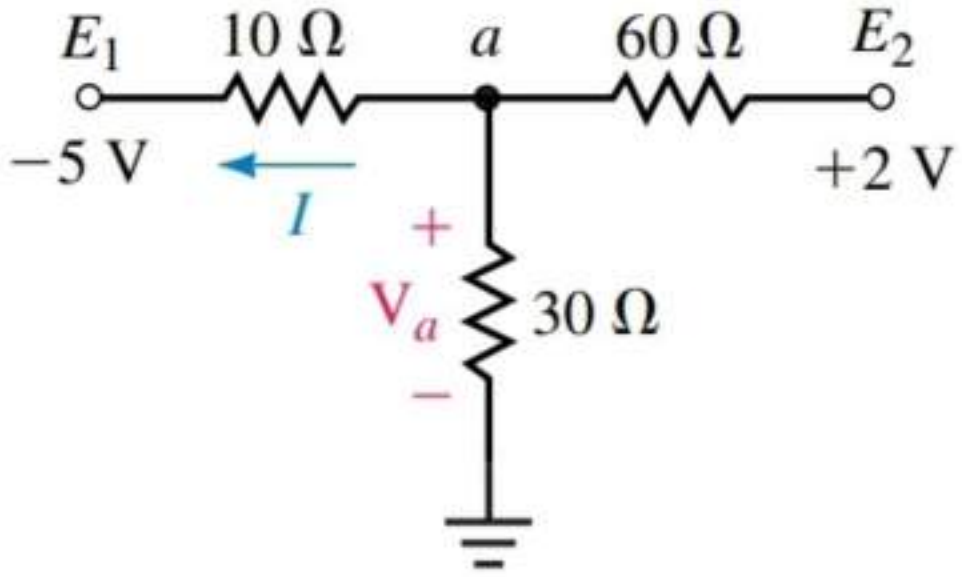
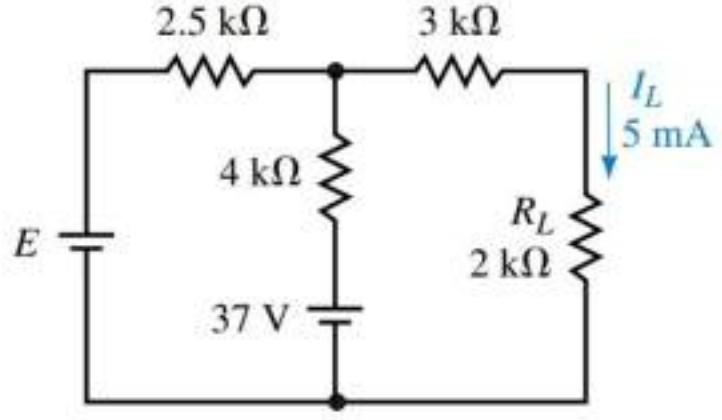
(1Q) Find the voltage V_a and current I in the following circuit.



(2Q)

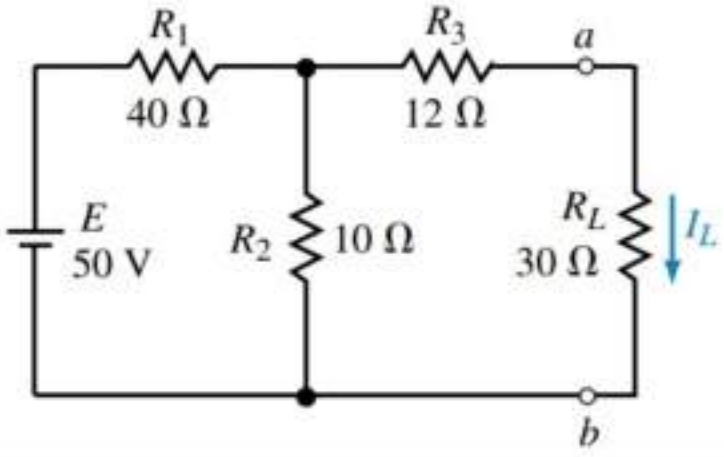
Given the circuit of Figure 9–79, what must be the value of the unknown voltage source to ensure that the current through the load is $I_L = 5$ mA as shown. Verify the results using superposition.



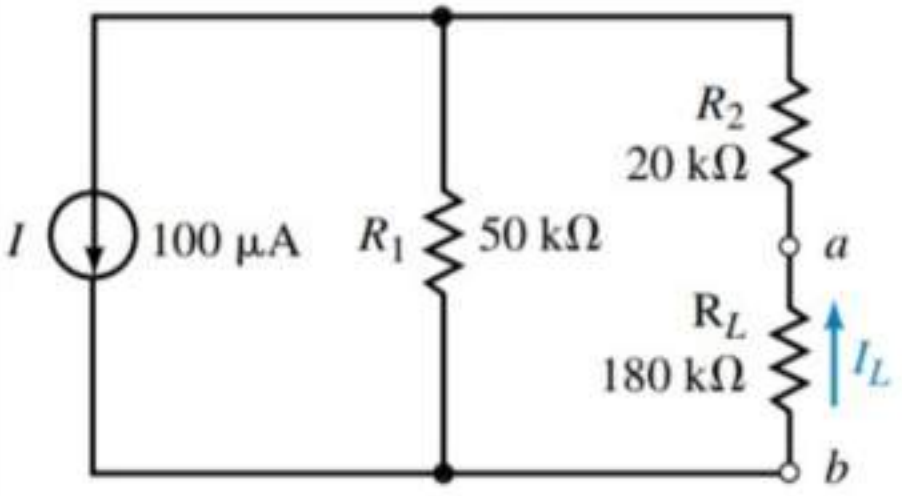
"

Please ignore the last sentence (superposition)!

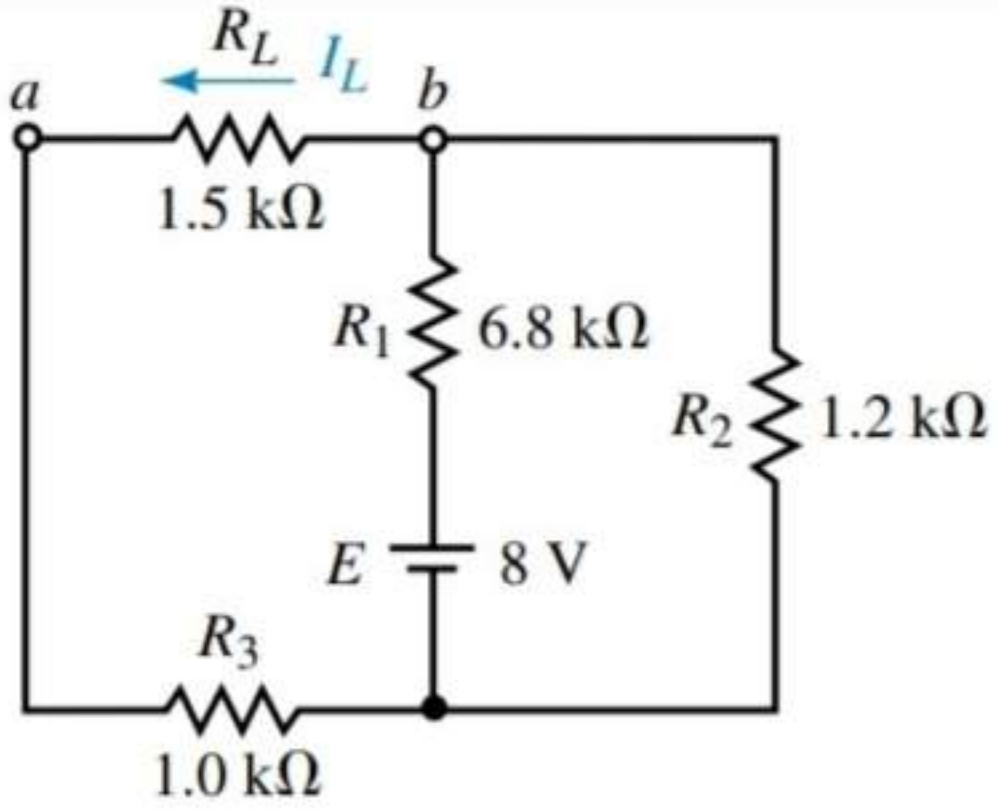
Find the Thévenin equivalent external to R_L in circuit of Figure 9–81. Use the equivalent circuit to find V_{ab}.



(Q) Find the thevenin equivalent circuit for the following networks.



(a)

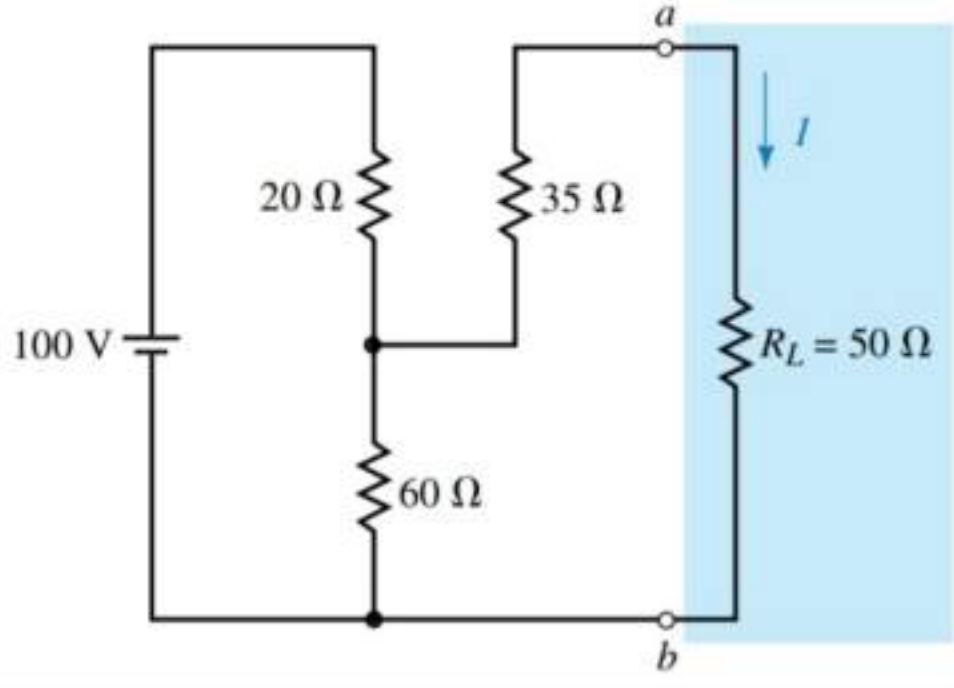


(b)

Refer to the circuit of Figure 9–87:

a. Find the Thévenin equivalent circuit external to the indicated terminals.

b. Use the Thévenin equivalent circuit to determine the current through the indicated branch.



Refer to the circuit of Figure 9–89:

a. Find the Thévenin equivalent circuit external to the indicated terminals.

b. Use the Thévenin equivalent circuit to determine the current through the indicated branch.