

大同大學101 學年度(寒)轉學入學考試試題

考試科目：電路學

所別：電機工程學系

第全頁

註：本次考試 不可以參考自己的書籍及筆記； 不可以使用字典； 不可以使用計算器。

- (1) Calculate V_o and I_o in the circuit of Fig.1.

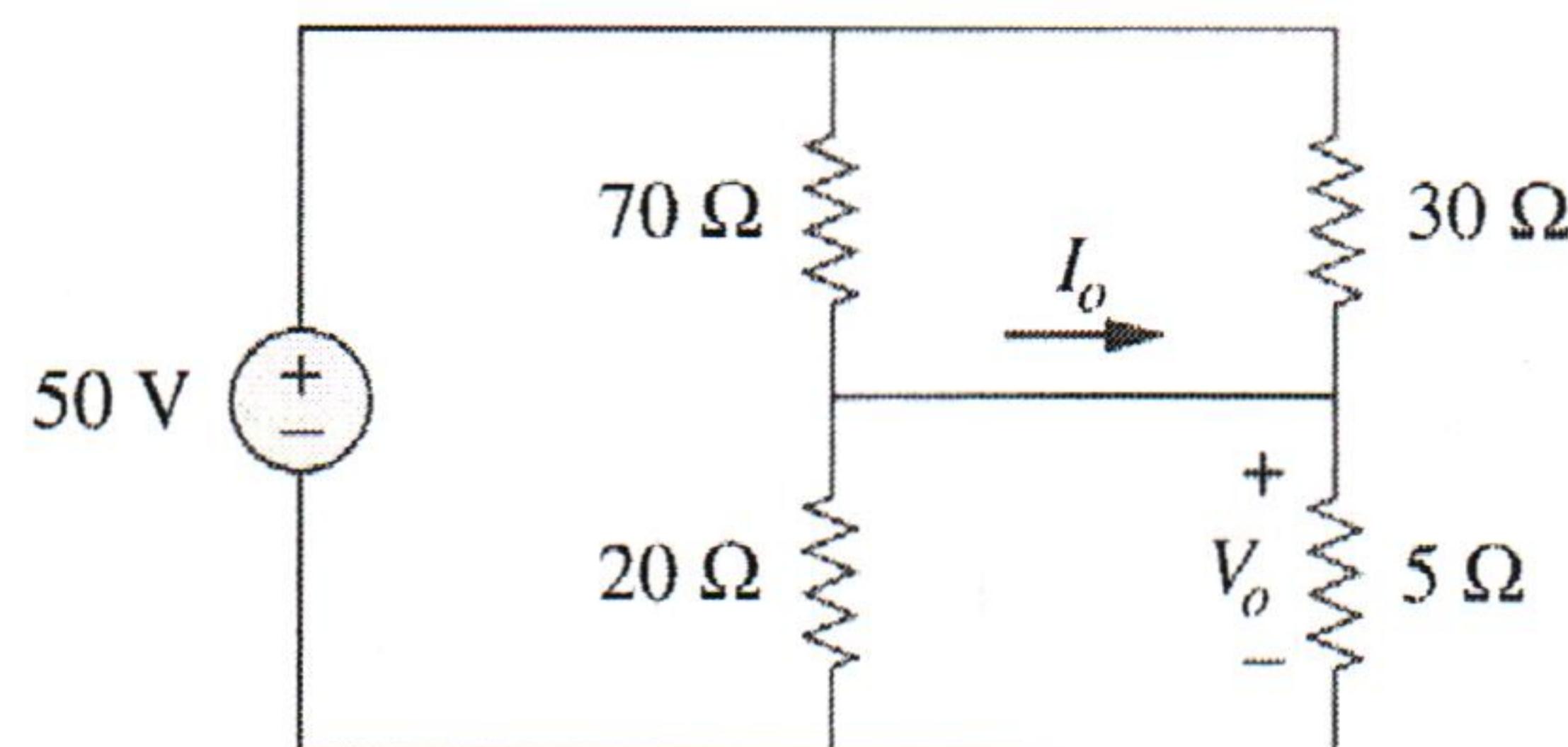


Fig.1

- (2) Determine the node voltages V_1 , V_2 , and V_3 in the circuit in Fig. 2.

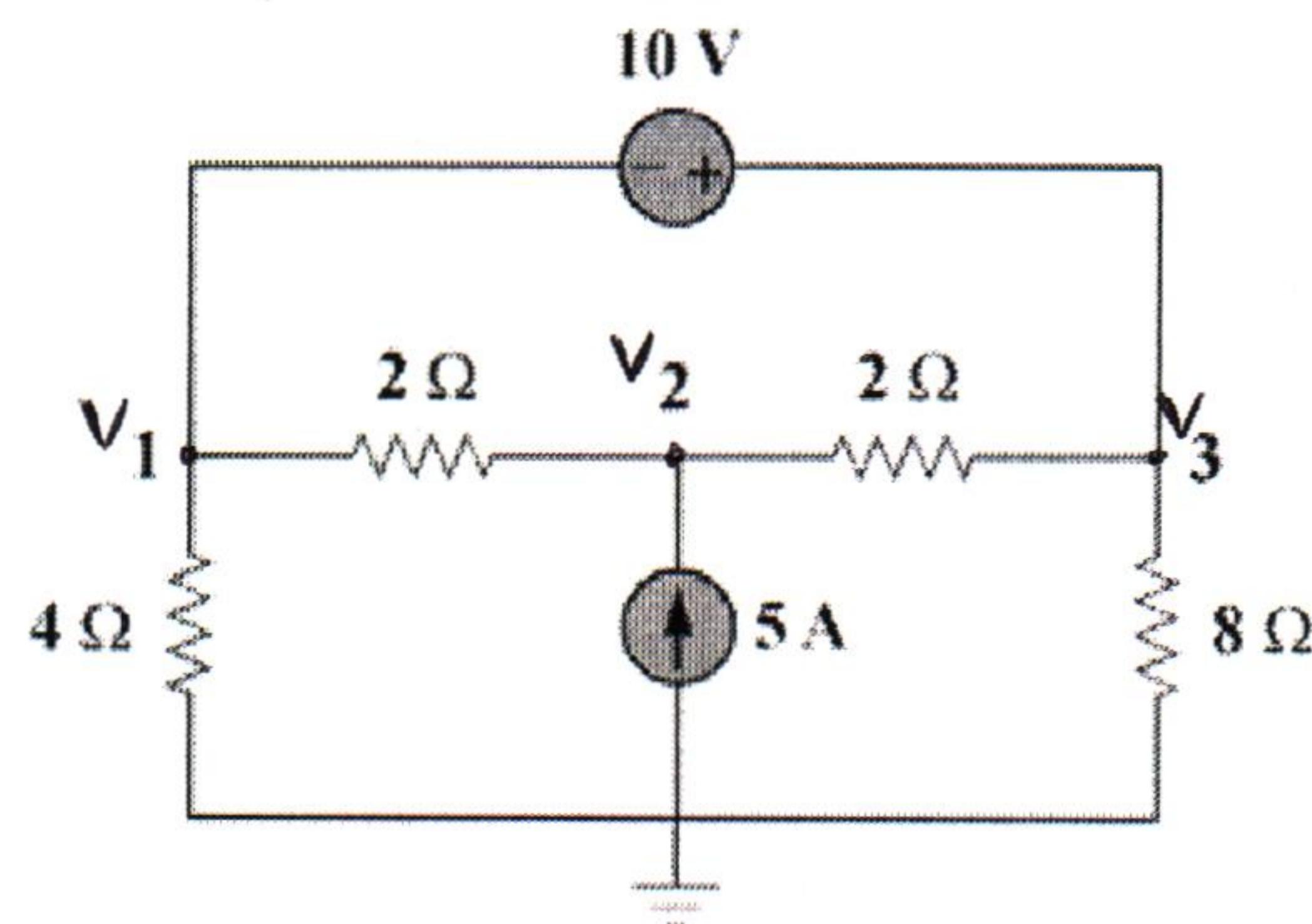


Fig.2

- (3) For the transistor model in Fig. 3, obtain the Thevenin equivalent at terminals $a-b$.

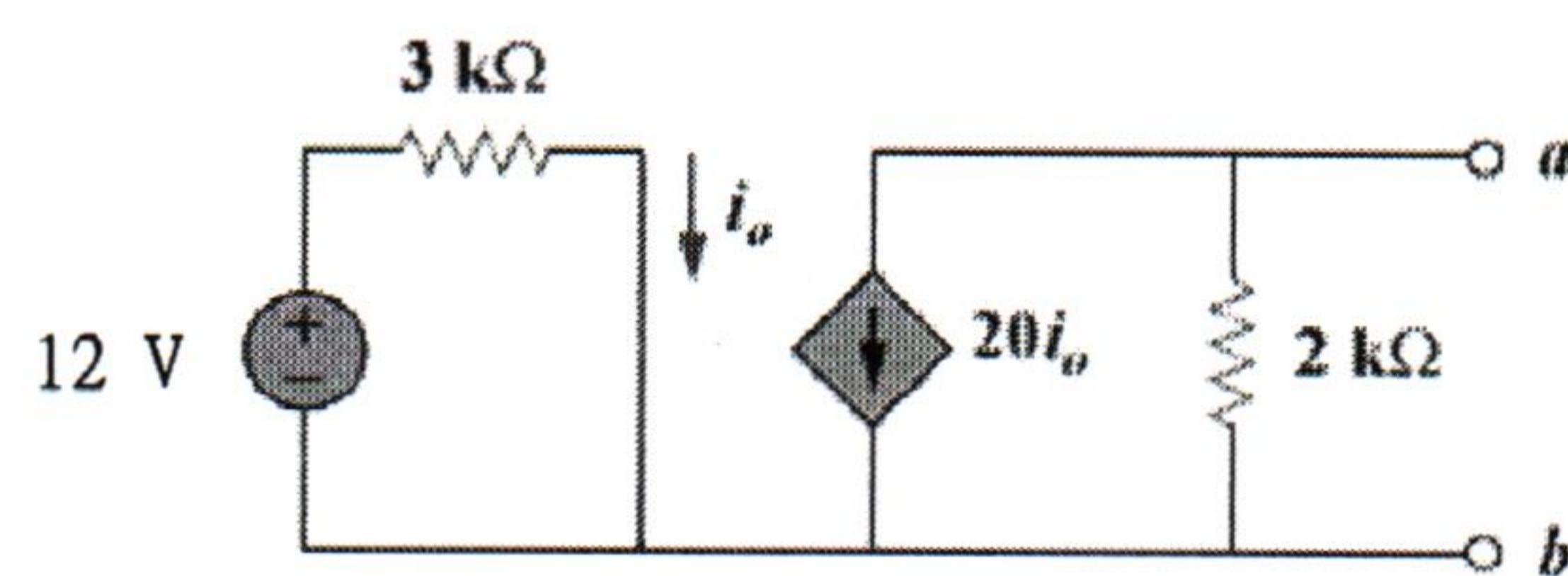


Fig. 3.

- (4) For the circuit in Fig. 4, determine:

- (a) the voltage across each capacitor,
- (b) the energy stored in each capacitor.

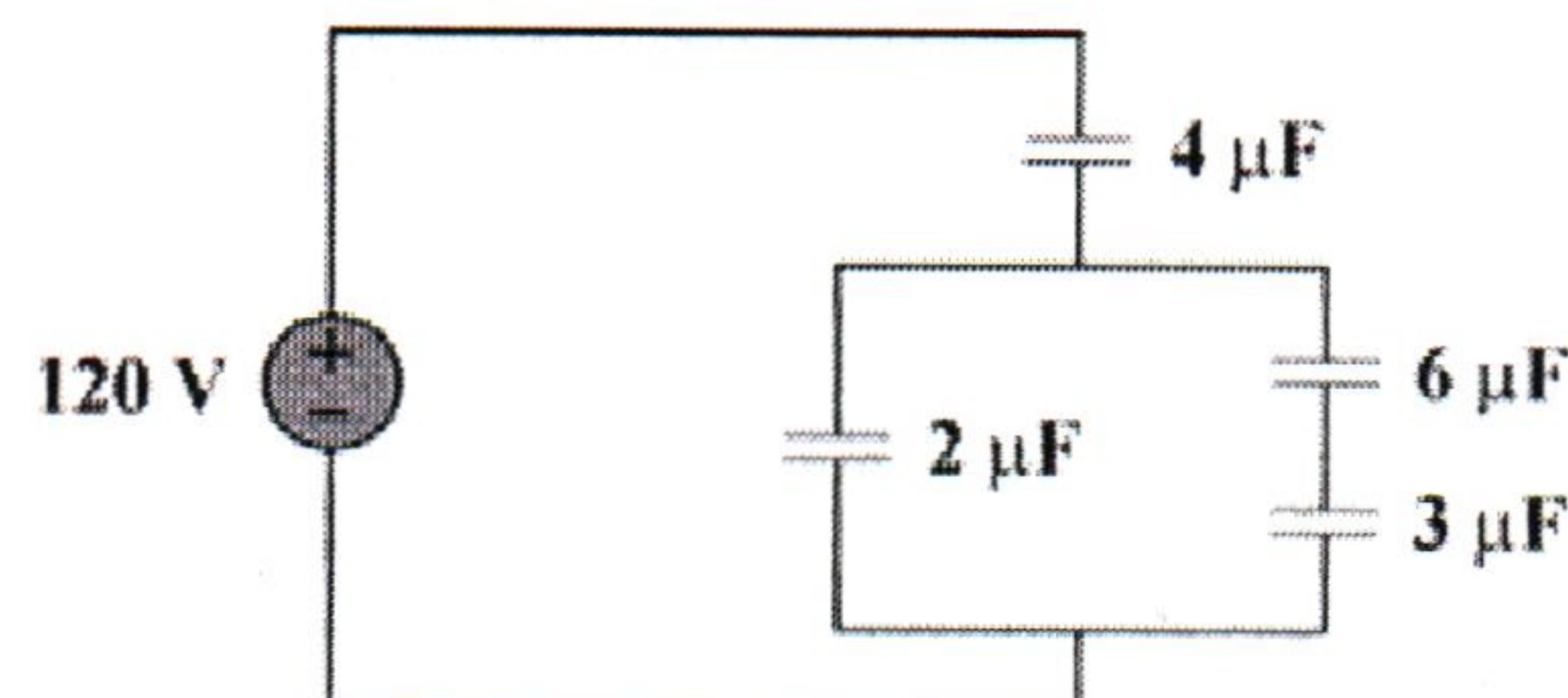


Fig. 4.