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## Brac University

Semester: Summer 2023

Course Code: CSE250

Circuits And Electronics

Section: 26

Faculty: PMD

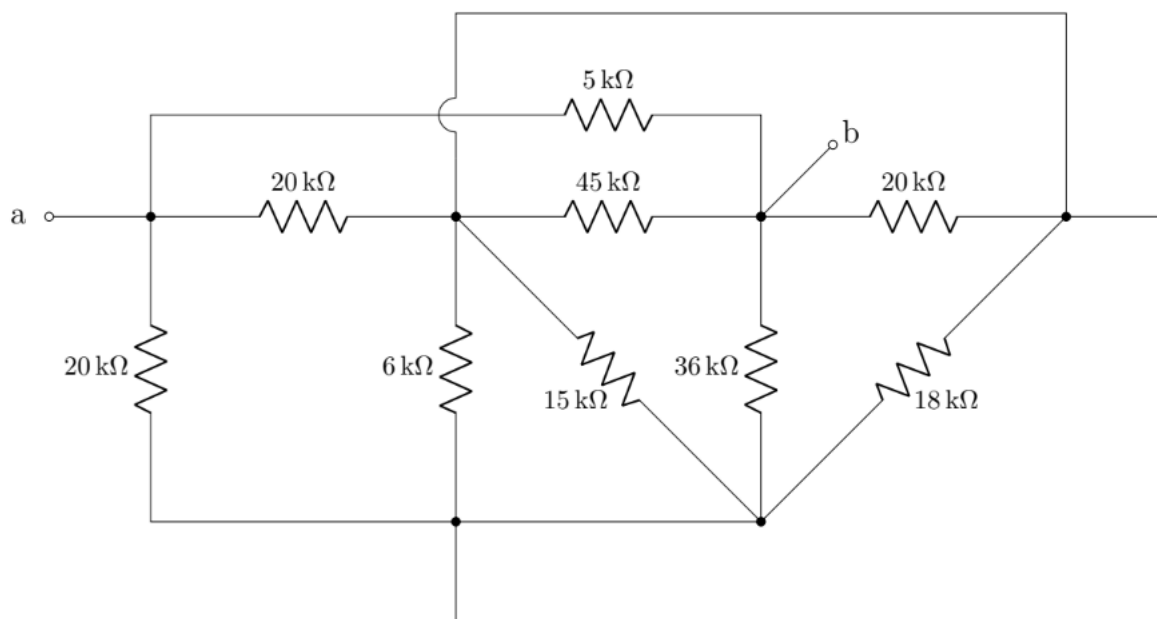


Assessment: *Assignment-1*

- ✓ Submit softcopy online by deadline
- ✓ Submit hardcopy in class by deadline

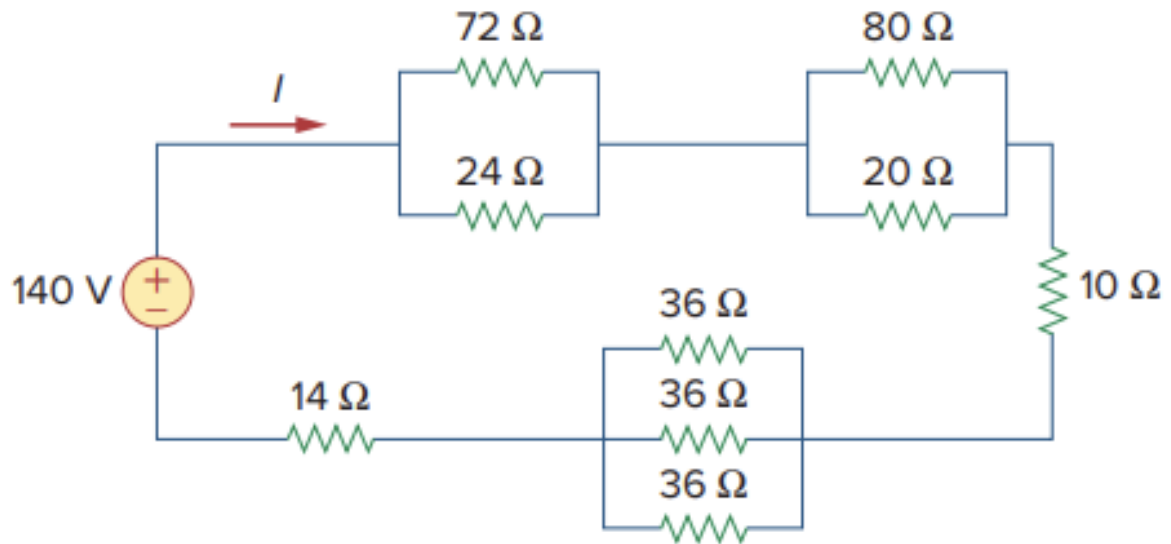
### ■ Question 1 of 6 [CO1] [10 marks]

Determine  $R_{ab}$



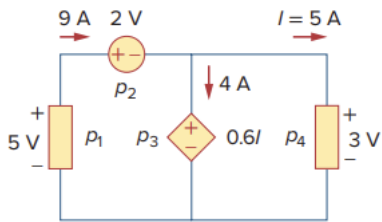
**■ Question 2 of 6** [CO1] [10 marks]

Determine  $R_{eq}$ ,  $I$  and the power of each element. Mention which element absorbs and which supplies power.



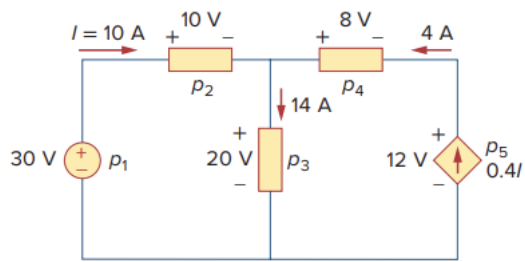
**■ Question 3 of 6** *[CO1] [10 marks]*

**Determine** the power through all elements. Mention which element supplies and which absorbs power.



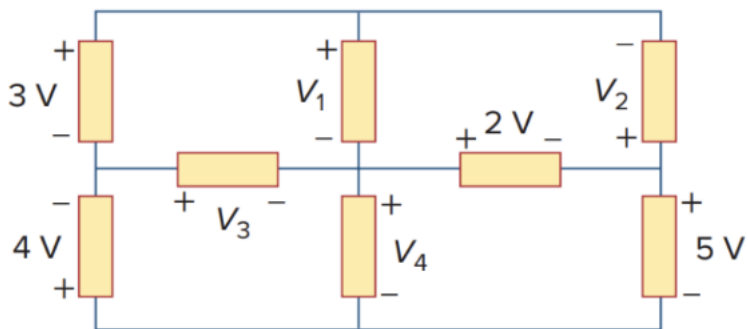
**■ Question 4 of 6** *[CO1] [10 marks]*

**Determine** the power through all elements. Mention which element supplies and which absorbs power.



**■ Question 5 of 6** [CO1] [10 marks]

Determine  $V_1$  through  $V_4$ .



**■ Question 6 of 6** *[CO1] [10 marks]*

**Determine**  $I$ , the unknown resistance  $R$  using KVL. Also **determine** the voltage and power across the  $6\text{M}\Omega$  resistance.

