[BRAC University]

[Fall'13]

[PHY-306]

[Basic Electronics]

Assignment-II

Due on : 24th October, 2013

Instractor:
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SI:

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Problem 1

(5 marks) Determine the R_{th} and V_{th} at the terminals $a-b$ of the circuit shown in Fig-1.

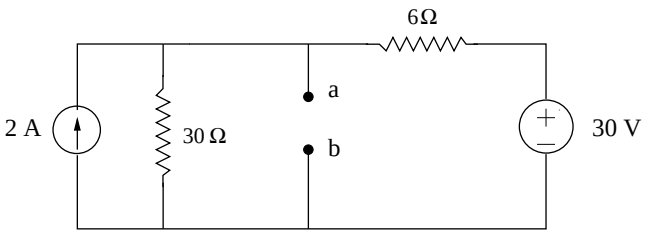

Figure 1: Question-1

Problem 2

(5 marks) Find the Thevenin equivalent circuit looking into the terminals $a - b$ of the circuit shown in Fig-2 and find the value of i_x .

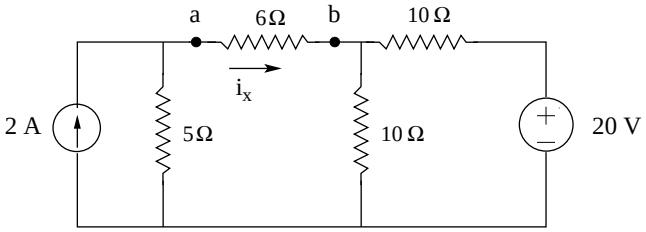

Figure 2: Question-2

Problem 3

(5 marks) Obtain the Norton equivalent circuit of the circuit shown in Fig-3 as viewed from the terminal $a - b$.

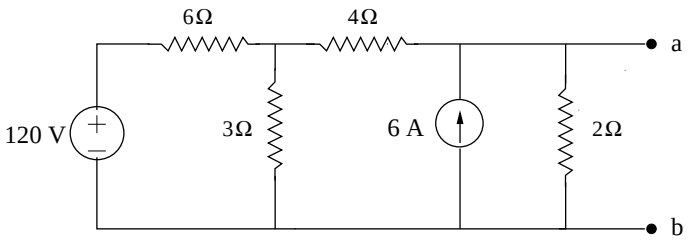

Figure 3: Question-3

Problem 4

(5 marks) Obtain the current through the Galvanometer G, having a resistance of 14Ω, in the Wheatstone bridge shown in Fig-4.

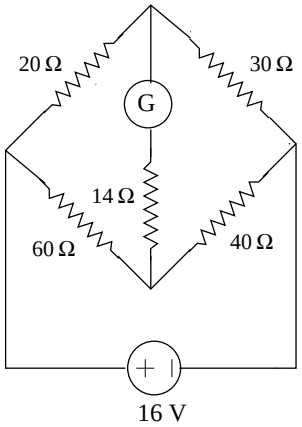

Figure 4: Question-4