

## Cyprus International University

## Department of Electrical and Electronic Engineering

## Circuit Theory 1 EELE202

**Experiment 3 Thevenin Theory** 

**Spring 2022-2023** 

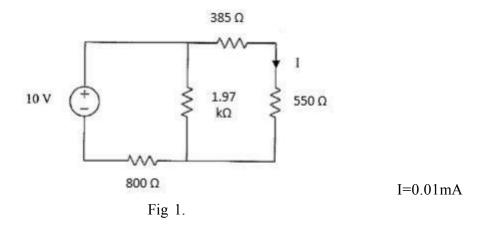
Name SurnameID1. Abdulahi Ogunlesi221140312. Jeremie Mutombo22019485

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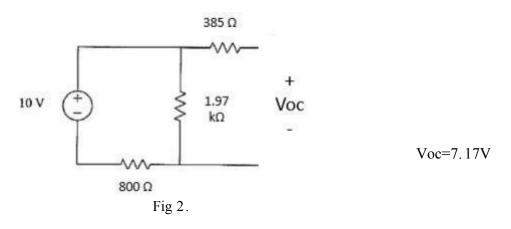
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**Object:** To find a method of simplifying a network in order to obtain the current flowing in one particular branch of the network.

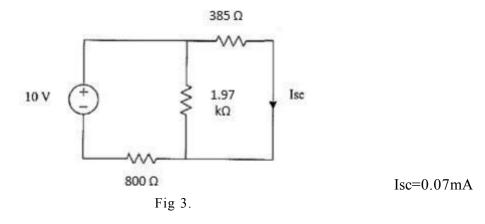
**Step 1**: Construct the circuit in Fig 1. and measure I.



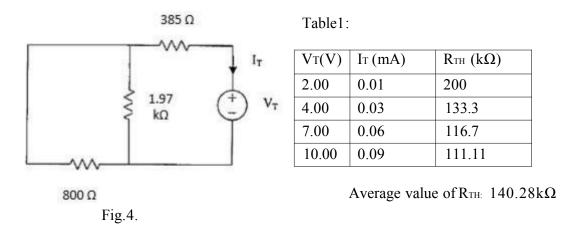
Step 2: Construct the circuit in Fig 2. and measure Voc.



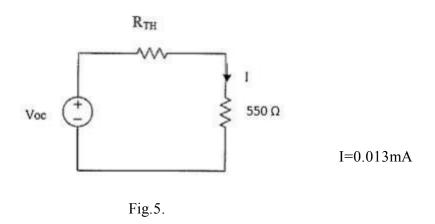
Step 3: Construct the circuit in Fig 3. and measure Isc.



**Step 4**: Construct the circuit in Fig 4. and measure IT and fill Table 1.



**Step 5:** Construct the thevenin equivalent of the original circuit in Fig. 3.5 by using Voc and RTH and measure I value again to satisfy it with the one found in the first step.



**Conclusions** (write a small paragraph of what you got from the experiment: In the first figure, after setting up the circuit, we measured I to be 0.01MA.In the second

circuit, we measured the VOC to be 7.17v, we got the ISC in the third circuit. In the fourth circuit, we measured IT and completed the table. In the last circuit, we got I to be 0.013MA satisfying the first circuit I, the values of the I are closed, the little differences in the I must be due to some lab errors. The experiment was successful and Thevenin theory was proved.