BERZIET UNIVERSITY FACULTY OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING

ENEE 2102

Circuits Laboratory

Experiment.4 Prelab

**Newtork Theorems**

Prepared by:

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Supervised by

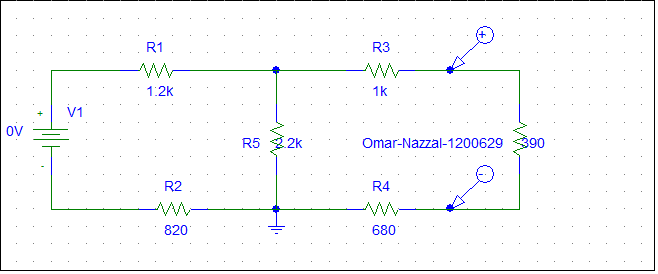
Dr. Jaser Sa'ed

Teacher assistance:

Eng.Shadi Bannoura

April 2022

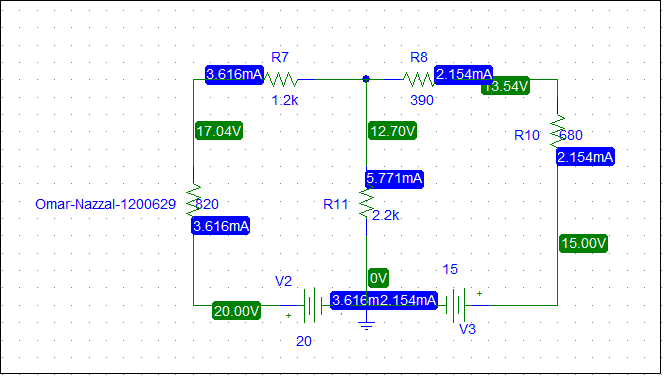
**Part A: Proportionality**

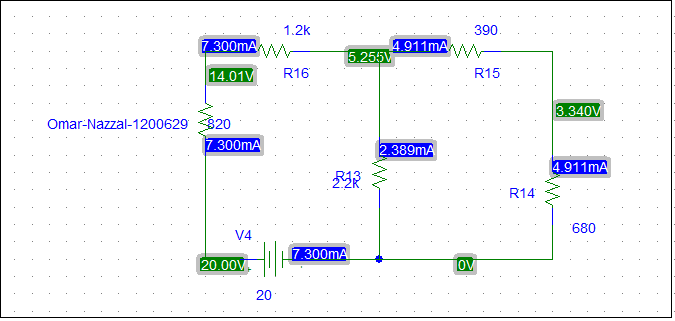


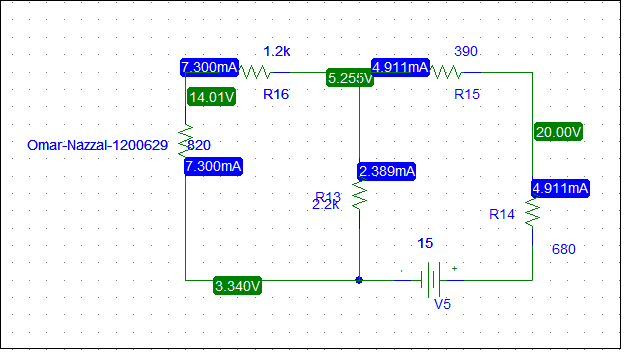
**Cursors at vin =**5,10

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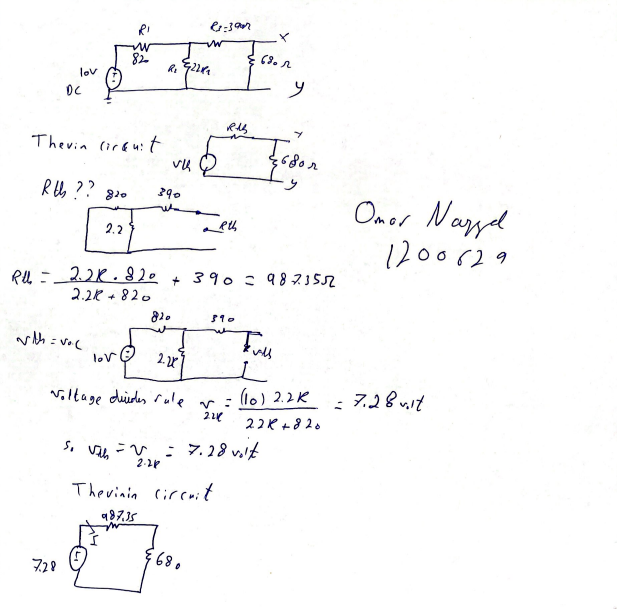
Part B: Superposition

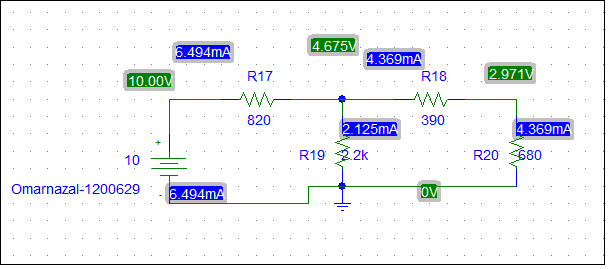
figure 4.2 in manual

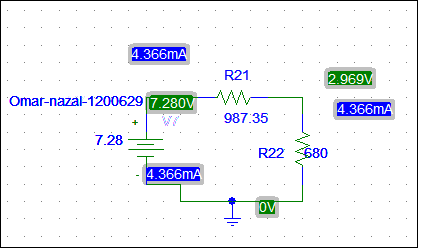
figure 4.3 in manual

figure 4.4 in manual

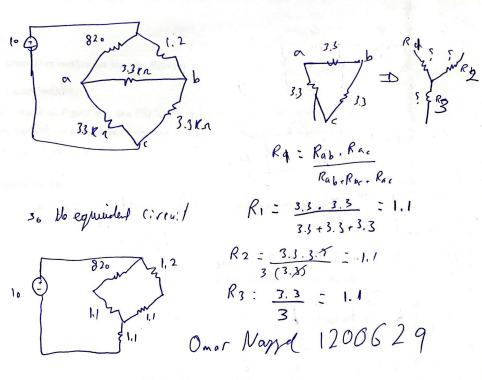
**Part c : Thevenin's theorem**

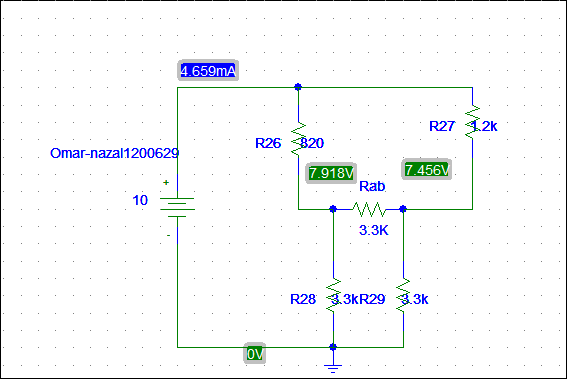
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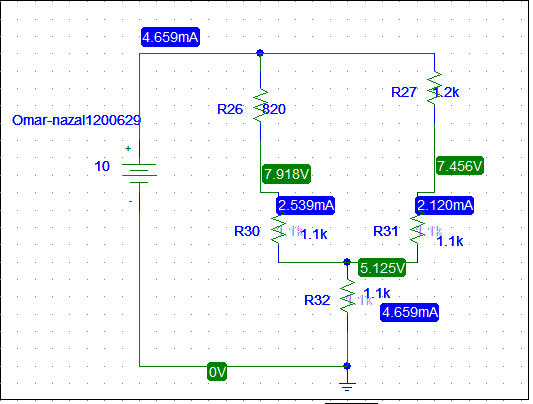




**Part D : ∆-Y Transformation**

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Vacroos a-b = 7.918-7.456=0.462 volt



**Part E: Reciprocity Theorem**



