## Expirement 4: Network Analysis II The Thevenin and Norton Techniques

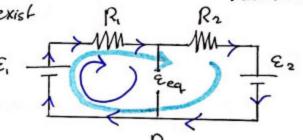
having two output beaminals and supplies having two output terminals can be replaced by a series combination of Ecq & Red By three steps: - Starting by Rg

Step 1: - you consider that E, E2 does not exist:

Req = 
$$R_1 + R_2$$
  
 $Req_3 = \frac{R_1 R_2}{R_1 + R_2}$ 

Step 2:- . You constider that E, Ez exist

. you find 
$$I--- 2$$



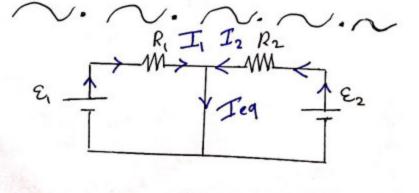
Step 3: you find Ieg 3

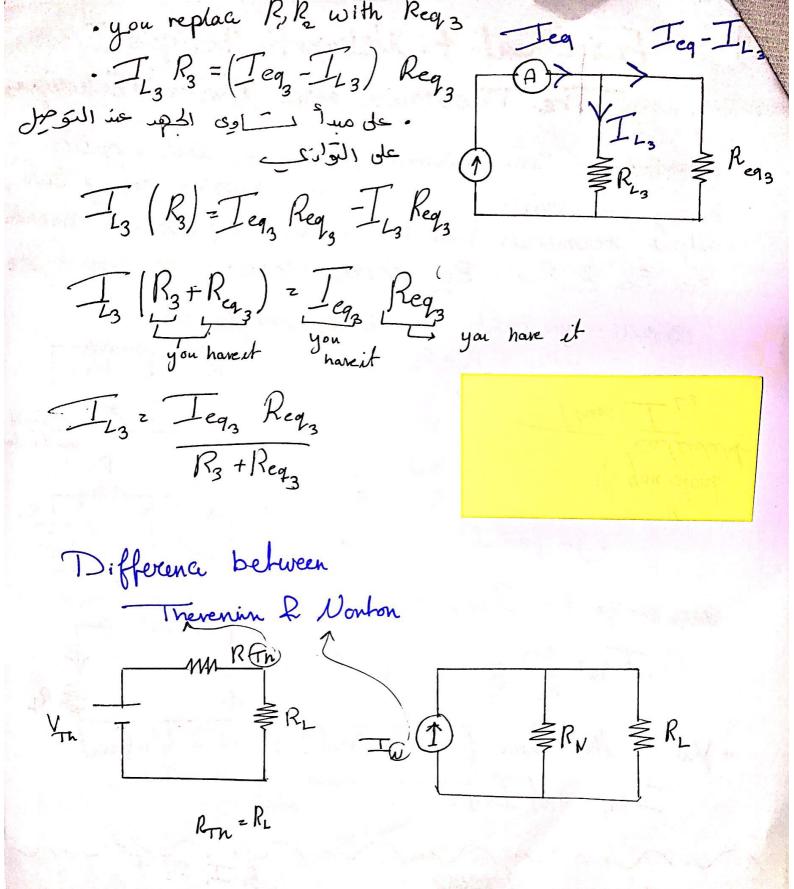
and R2 and you finel · You do the same for Ieg, and Irg 2

2-Norton's for R3

Step 1:- The same

Step 3 gebredon E, Ez

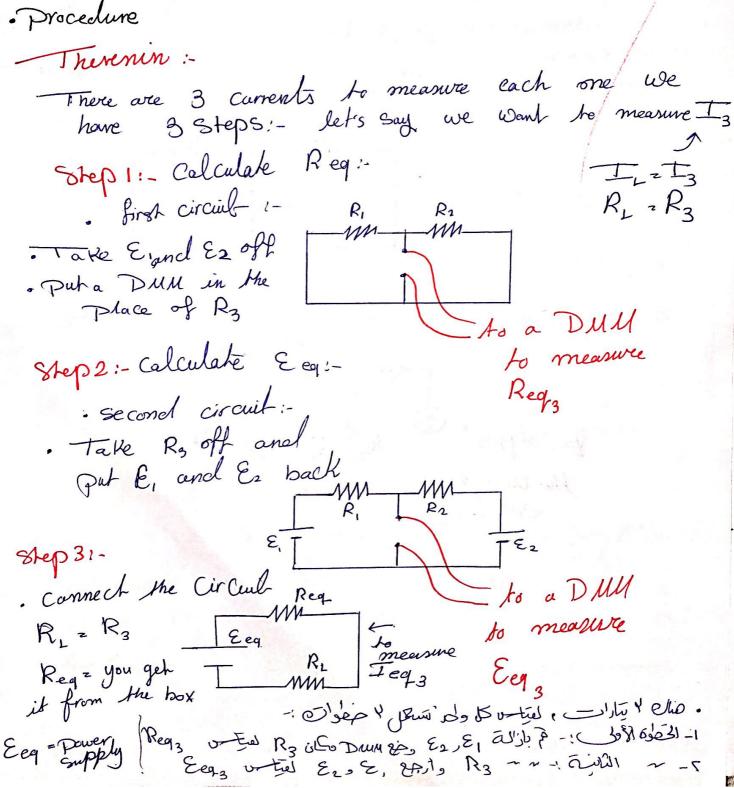




· what we use

· DUM; digital Mulbimete

- · 2 voltage sources
- · 3 corpon Resistances
- · Cir Cuit board.
- · digital Multimeter



Norton i-Shep 1:- The same as Therein's first step DUM tolpinel Regs Teg3 ws. Shep 2:- measure Iegs:-Step 3:- Connect this Circuit you supply of The circuit With Iers