

Umar Khan/ Alex Wall

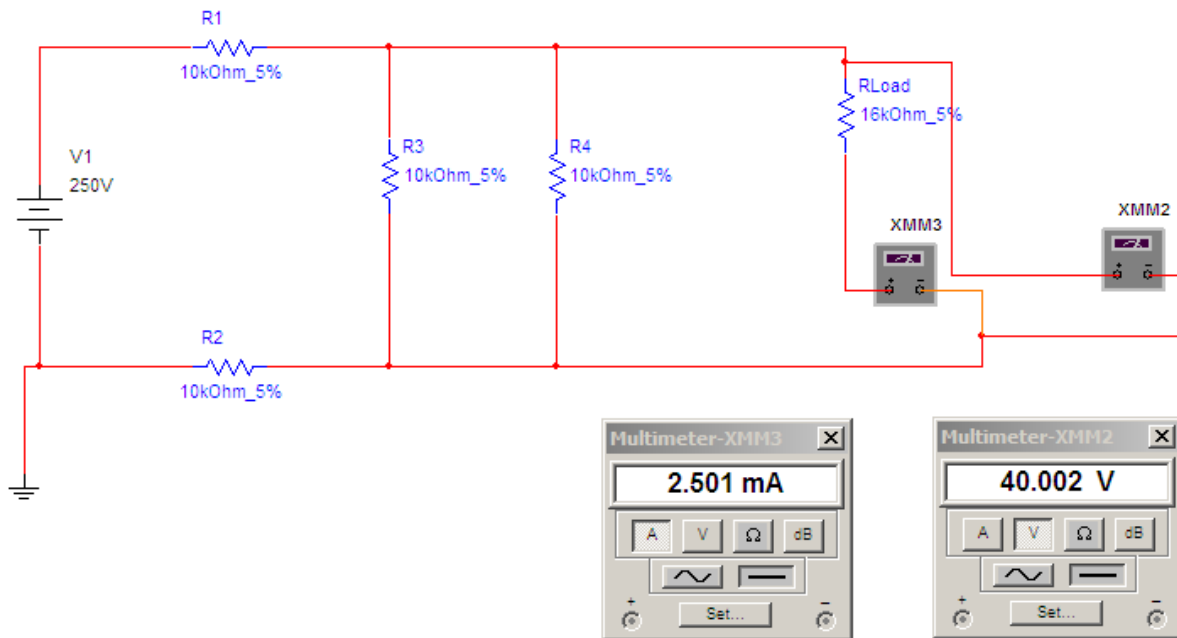
Professor Joshua Hayter

CECS 211

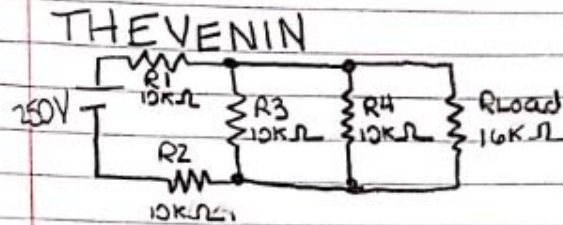
11 October 2016

Lab 6

Section 1:



Section 2:



$$R_T = 10K\Omega + \left(\frac{1}{\frac{1}{10K\Omega} + \frac{1}{10K\Omega}} \right) + 10K\Omega$$

$$R_T = 10K\Omega + 5K\Omega + 10K\Omega$$

$$R_T = 25K\Omega$$

$$I_T = \frac{250V}{25K\Omega} = 10mA$$

$$V_{R1} = 10mA \cdot 10K\Omega = 100V$$

$$V_{R2} = 10mA \cdot 10K\Omega = 100V$$

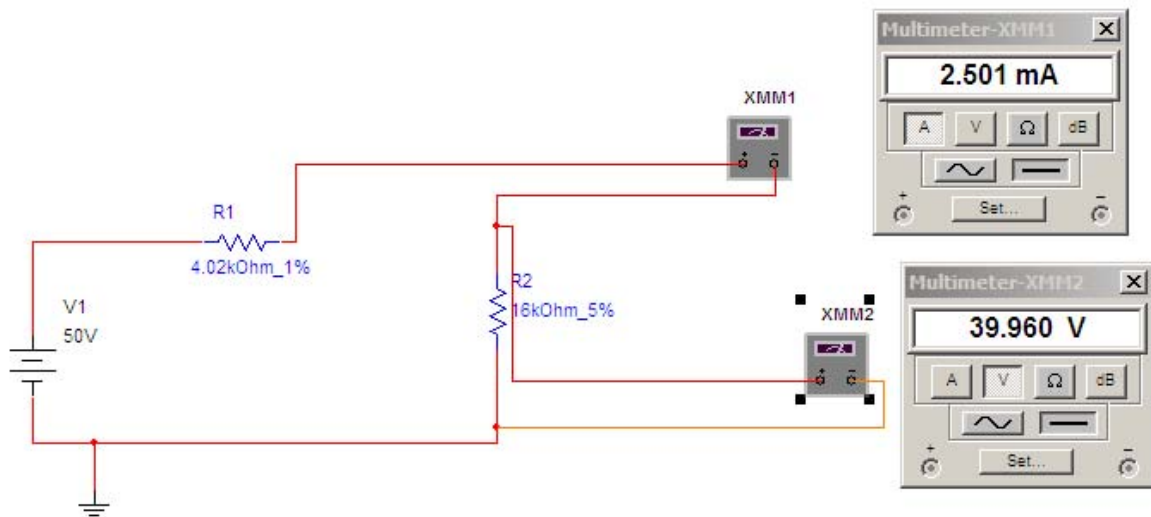
$$V_{TH} = 250 - 100 - 100 = 50V$$

$$R_{TH} = \frac{1}{\frac{1}{20K\Omega} + \frac{1}{10K\Omega} + \frac{1}{10K\Omega}}$$

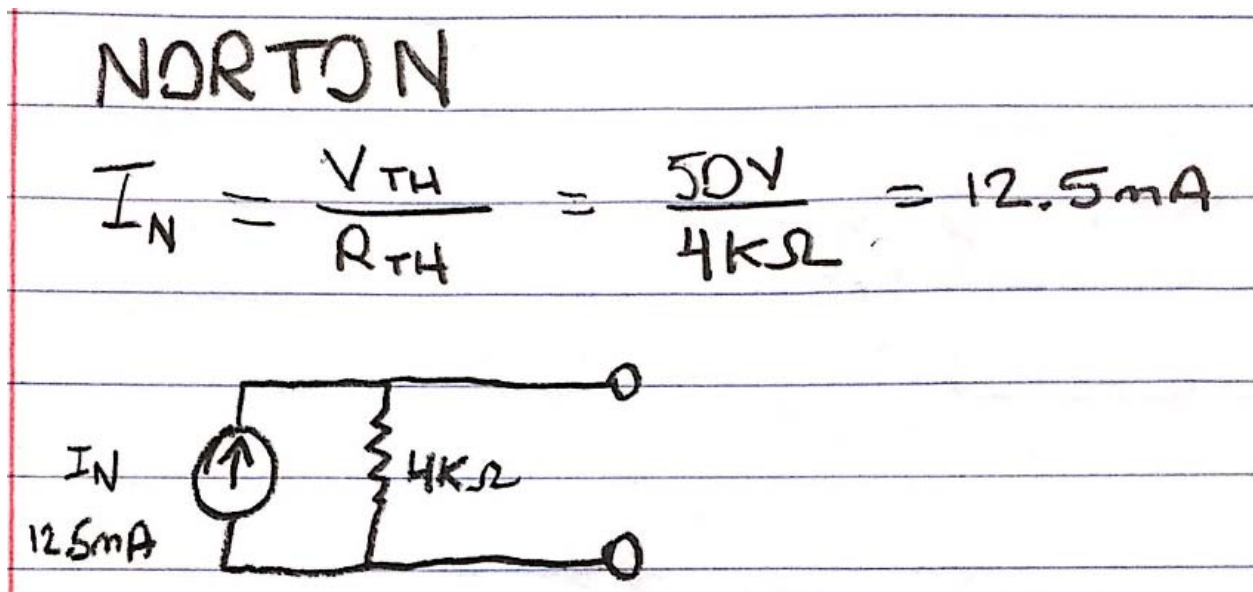
$$R_{TH} = 4K\Omega$$



Section 3:



Section 4:



Section 5:

