Mid-Term

Multisim

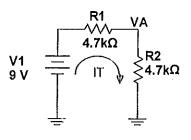
Name Tanner	C 11 2		
Name WINUS	Wibson	_Date	

Score ______ instructor (Mr. Bell)

The following questions should be should be answered in three ways: calculation using your calculator, simulation using MultiSim and test using Elvis II.

1. Find the following:

Find IT, RT and VA via analysis (show all work.)

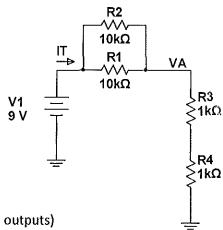


Find IT, RT and VA via simulation (printout simulation schematic and outputs)

Find IT, RT and VA via test (diagram your test setup and measure RT, IT and VA).

2. Find the following:

Find IT, RT and VA via analysis (show all work.)

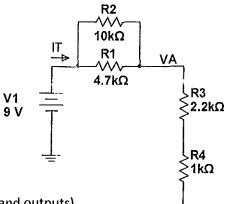


Find IT, RT and VA via simulation (printout simulation schematic and outputs)

Find IT, RT and VA via test (diagram your test setup and measure RT, IT and VA).

3. Find the following:

Find IT, RT and VA via analysis (show all work.)

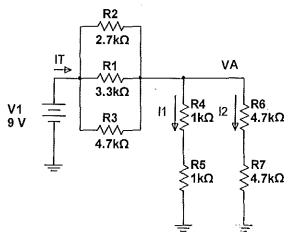


Find IT, RT and VA via simulation (printout simulation schematic and outputs)

Find IT, RT and VA via test (diagram your test setup and measure RT, IT and VA).

4. Find the following:

Find IT, RT and VA via analysis (show all work.)



Find I1, I2, IT, RT and VA via simulation (printout simulation schematic and outputs)

Find IT, RT and VA via test (diagram your test setup and measure RT, IT and VA).

RT =
$$\frac{2.778 \text{KJL}}{11 = \frac{3.14 \text{mA}}{2.672 \text{mB}}}$$

12 = $\frac{5.68.4340 \text{A}}{2.343}$

EECT 111 Mid-Term

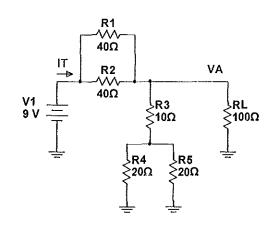
5. Find the following:

Find R_{TH} , V_{TH} and RL for maximum power transfer via analysis (show all work.) Create a plot in Excel for the power transfer.

$$R_{TH} = \frac{10 \text{ L}}{4.5 \text{ V}}$$

$$RL = \frac{4.5 \text{ V}}{4.091 \text{ V}}$$

$$RL = 4.091 \text{ V}$$



Find R_{TH} , V_{TH} and RL for maximum power transfer via simulation (printout simulation schematic and outputs).