

EE43/EE100 Lab Report #3

Name: _____

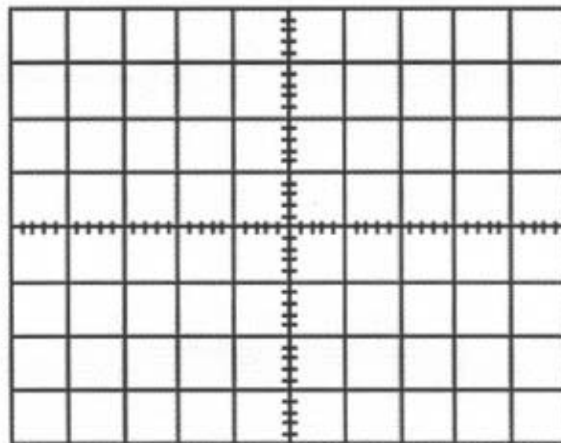
TA: _____

Section: _____

Equivalent Resistor Networks

1. Step 1: Max current through resistor network: _____
2. Step 2: Resistance across **A** and **B**. Theory: _____ Measured: _____
3. Step 3:

V_{AB}	I

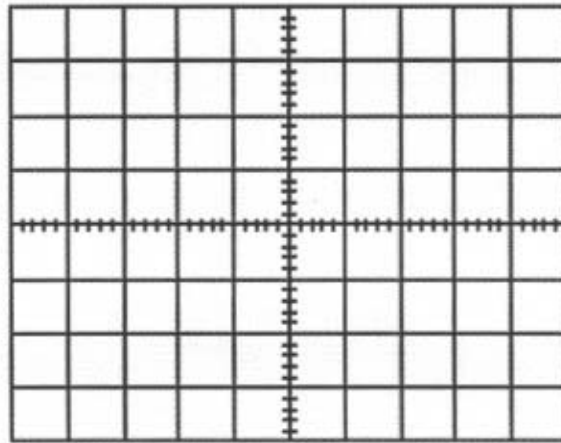


Value of resistance inferred from the IV curve: _____

4. Step 5::

V_{AB}	I

Value of resistance inferred from the IV curve: _____



5. Steps 6, 7, and 8 measure V_{TH} , I_{SC} , and R_{TH} . The theoretical values should have been calculated in your prelab.

	Theory	Actual
V_{TH} :		
I_{SC} :		
R_{TH} :		

6. Steps 9-13:

	Original		Thévenin		Norton	
	V	I	V	I	V	I
200 Ω						
1.2k Ω						
2.0k Ω						

7. Step 14:

$i_g =$ _____ (before swapping resistors)

$i_g =$ _____ (after swapping resistors)

8. Step 15: Demo and explain to TA. _____ (TA initials)

9. Step 16:

Estimated thumb-to-index resistance: _____

Resistance measured using the DMM: _____