Name:_____

Student ID:_____

Name:_____

Student ID:_____

Section:_____

Date:_____

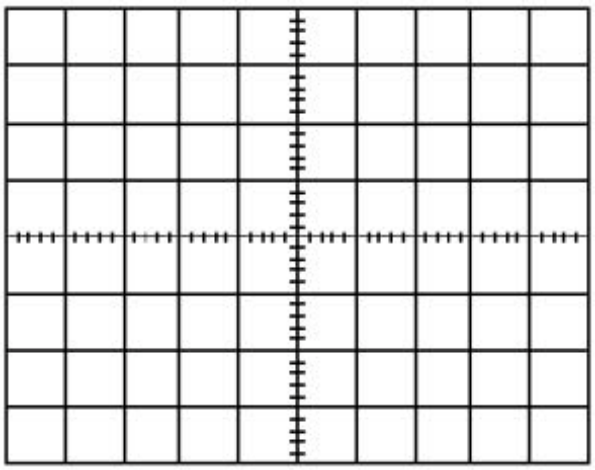
UNIVERSITY OF CALIFORNIA, BERKELEY
EE100 Summer 2008 Lab 2

Equivalent Circuits Report

Equivalent Resistor Networks

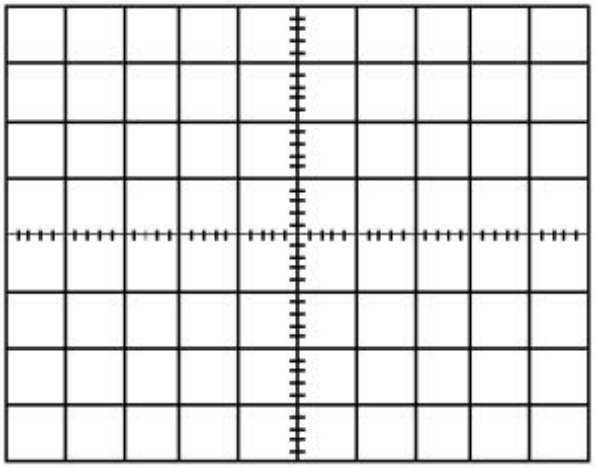
1) Step1: Max Current through resistor network:_____
2) Step 2: Resistance across **A** and **B**. Theory: _____ Measured: _____
3) Step 3:

V_{AB}	I



4) Step 5:

V_{AB}	I



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		Thevenin		Norton	
	V	I	V	I	V	I
220.						
1.2k.						
2.2k.						

7) Steps 14 - 16.

What is the frequency of the output wave between terminal C and D

Note the differences, if any, between the input and output wave forms

What can be said about the relationship of the input and output wave forms when a sinusoidal signal is passed through a purely restistive network.

8) Step 17.

	Theory	**Measured**
R_{eq}		

9.) Steps 18 & 19.

	Current
A-D	
D-C	
D-G	