

Name: \_\_\_\_\_  
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 Section: \_\_\_\_\_  
 Date: \_\_\_\_\_

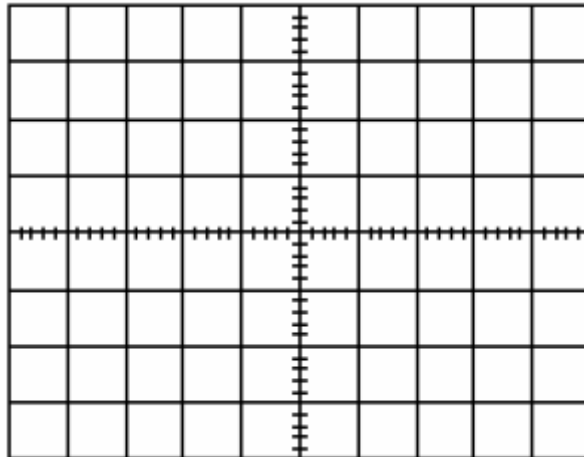
UNIVERSITY OF CALIFORNIA, BERKELEY  
 EE40: Introduction to Microelectronic Circuits

# Equivalent Circuits Report

## Equivalent Resistor Networks

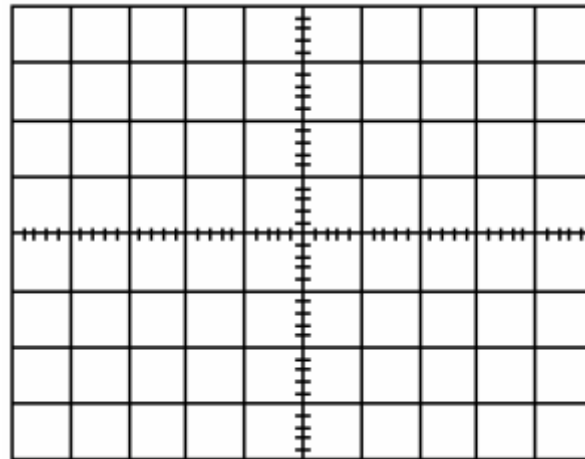
- 1) Step1: Max Current through resistor network: \_\_\_\_\_
- 2) Step 2: Resistance across **A** and **B**. Theory: \_\_\_\_\_ Measured: \_\_\_\_\_
- 3) Step 3:

$V_{AB}$	$I$



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	
	$V$	$I$	$V$	$I$	$V$	$I$
<b>220<math>\Omega</math></b>						
<b>1.2k<math>\Omega</math></b>						
<b>2.2k<math>\Omega</math></b>						