ECE 320 Quiz 1: Name _____

September 3, 2015. EE 206 Review

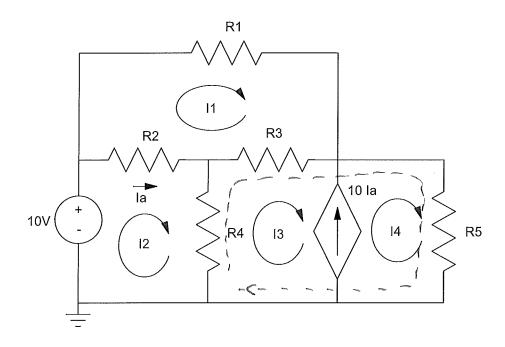
1) Assume each resistor is 1000 Ohms. Determine the resistance between A and B

R_{AB} = 271452

Redvaw

1000 (000) 7000 \$ 700 1000 |2500 = 7/4

1000 5714 => 2714 -1000 2) For the following circuit, use current loops (KCL) to write N equations to solve for N unknowns. Yuo don't need to solve.



Loop Equations:

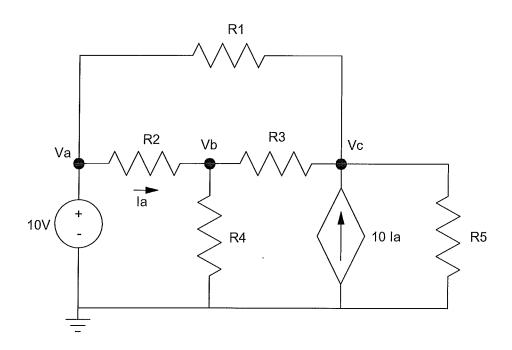
$$-10 + (I_2 - I_1) R_2 + (I_2 - I_3) R_4 = 0$$

Sperlap

I some

$$I_{4}-I_{3}=10(I_{2}-I_{1})$$

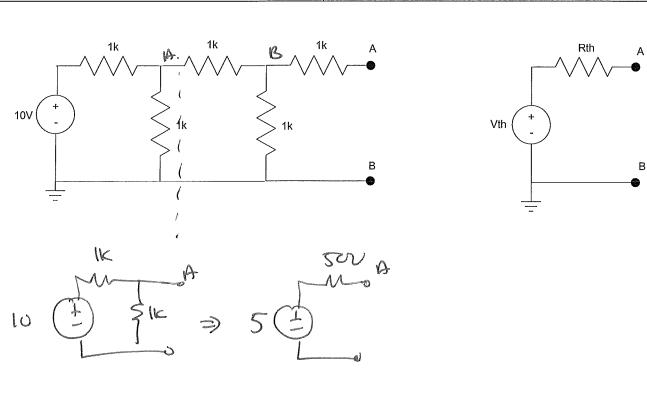
3) For the following circuit, use voltage nodes (KVN) to write N equations to solve for N unknowns. You don't need to solve.

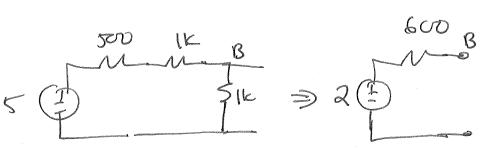


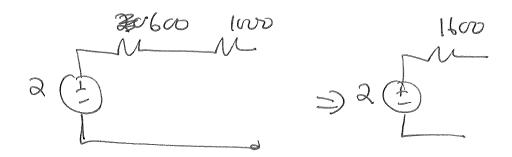
Voltage Node Equations:

4) Find the Thevenin equivalent for the following circuit.

Vth	Rth .		
2V	160052		







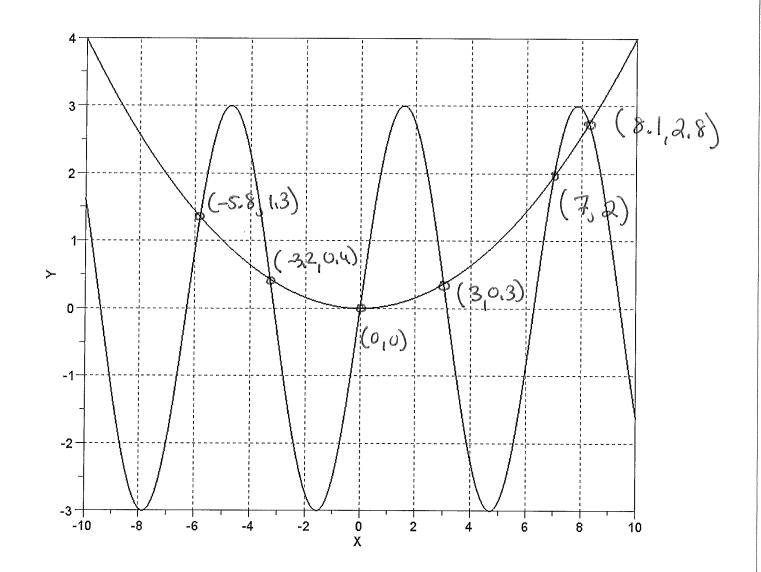
5) The following graph shows the functions

$$y = 3\sin(x)$$

$$y = 0.04x^2$$

Find all solutions to these two equations

6 solutions See graph



		7

BONUS! Steven Colbert Trivia! Jeb! Bush is one of the first guests on Steven Colbert's Late Show and has already started a controversy. What is it?

- a) The Jebi Bush campaign started running a fund-raising campaign to see the Colbert Show without asking the Colbert Show.
- b) Insisting that D****d T***p's name not be mentioned on the show.
- c) Insisting that Colbert sign a pledge that he will not run for President as a 3rd party candidate.
- d) The writers for the Cobert Show refused to provide the questions that Colbert will ask Jeb! Bush along with the answers.
- e) The Bush Campaign does not want the interview to be placed on the internet unless they can edit it first.