

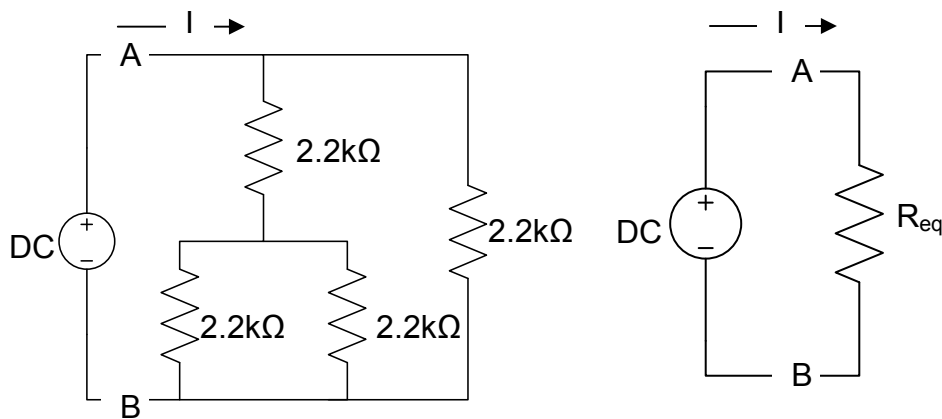
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Section: _____
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UNIVERSITY OF CALIFORNIA, BERKELEY
EE40: Introduction to Microelectronic Circuits

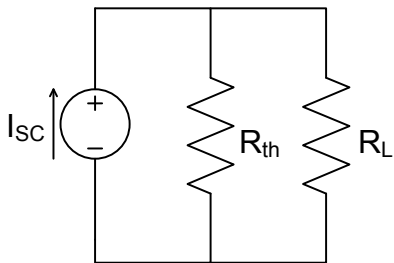
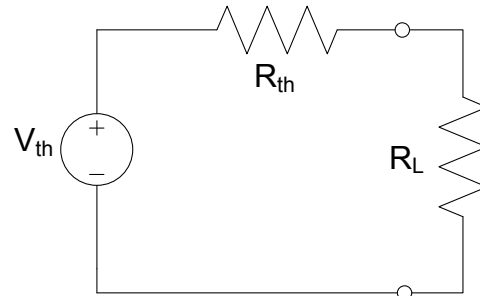
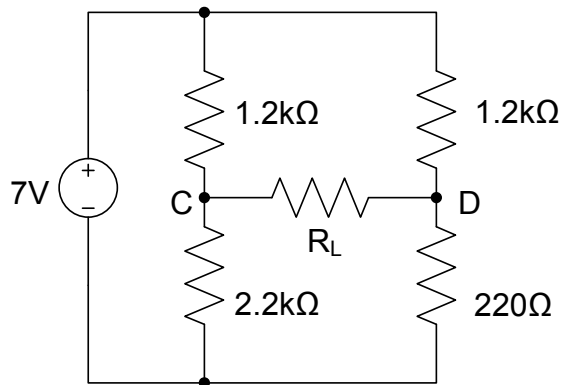
Equivalent Circuits Prelab

NOTE: Many of these theoretical values will be used in your lab. Please record your theoretical values in questions 2 and 5 of your lab report.

1) The two circuits given below are equivalent. What is R_{eq} ?



2) The three circuits given below are equivalent.



- a) What is the value of R_{TH} ?
- b) What is the value of I_{SC} ?
- c) What is the value of V_{TH} ?

3.) If you have not done so already in the homework, complete problem 2.15 (resistor cube) in Hambley. What is the R_{EQ} ? Also, in this lab we will be constructing this circuit on the breadboard. Devise a way to do this in a neat and orderly fashion using only the provided resistors and no extra wires.