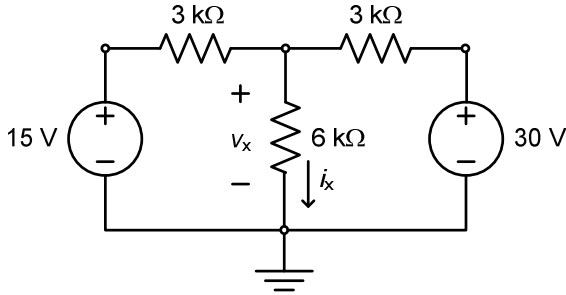
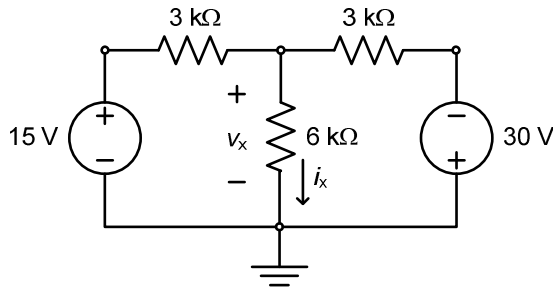


In this quiz, you are welcome to use your lab notebook as well as the lab manual.

- (25 points) In the circuit shown, use superposition principle to find the values of v_x and i_x using the superposition principle. Provide appropriate units for your answers. Box your answers.

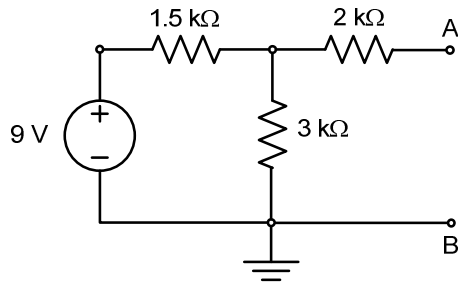


- (25 points) In the circuit shown, find the values of v_x and i_x using the superposition principle. (Hint: Use the results of Problem 1.) Box your answers.



Please look at the back page for Problems 3 & 4!

3. (25 points) Find the Thevenin equivalent of the circuit seen between A and B terminals as shown.



4. (25 points) In the circuit shown, find the value of R that will maximize power delivered to the 3 kΩ resistor. What is the maximum power delivered to the 3 kΩ?

