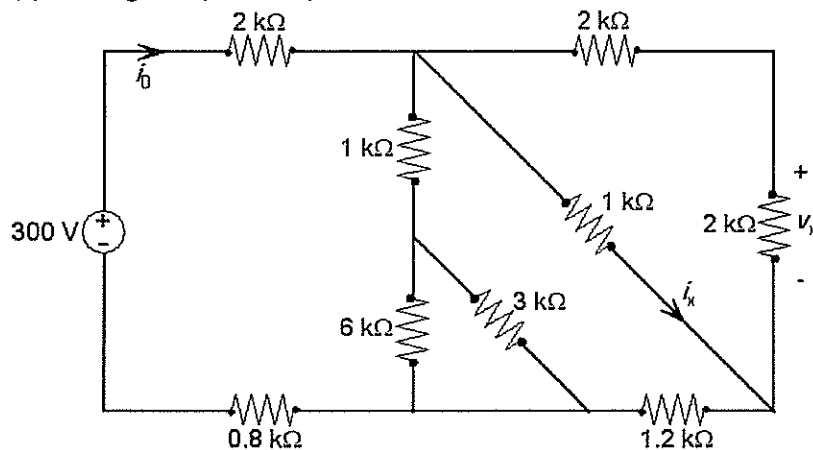


University of Toronto
Department of Electrical & Computer Engineering
ECE110S – Electrical Fundamentals

Quiz 2 – February 15, 2006, 4:30-5:00 PM

Instructions: Non-programmable calculators allowed. No other aids. Answer in the space provided on these sheets. The back sides of these sheets can be used as well. For full marks (20) you must show methods, state UNITS and compute numerical answers when requested. **Please write in PEN, not pencil.**

1. For the circuit below use circuit reduction, voltage division, and current division to calculate:
- (a) Current i_0 . (3 marks)
 - (b) Current i_x . (3 marks)
 - (c) Voltage v_x . (3 marks)



2. In the circuit below use the Node-Voltage method.

(a) Calculate the current i_x and the voltage v_x . **(8 marks)**

(b) Calculate the power delivered or absorbed by both sources. **(3 marks)**

