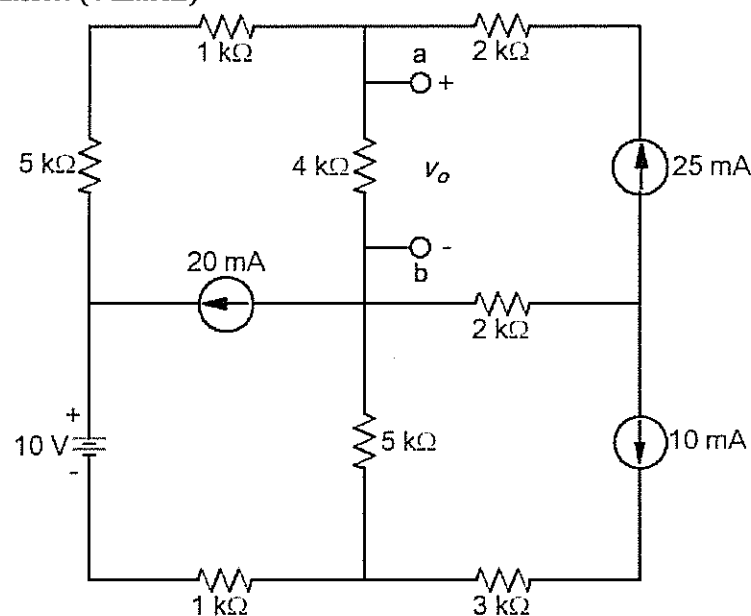


University of Toronto
Department of Electrical & Computer Engineering
ECE110S – Electrical Fundamentals
Quiz 3 – March 15, 2006, 4:30-5:00 PM

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:
 - (a) Use MESH ANALYSIS to find the voltage v_o between points a and b. **(8 marks)**
 - (b) Connect a load resistor R_L between points a and b and determine its value for maximum power transfer. **(4 marks)**



2. Find the output voltage v_o and the current i_o in the circuit below. (8 marks)

