Department of Aeronautics and Astronautics College of Engineering Peking University

Fundamentals of Circuits and Electronics

Project 1. Simulation of Electrical Circuits

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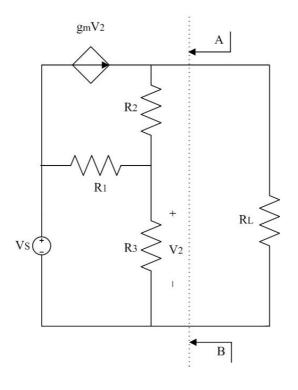
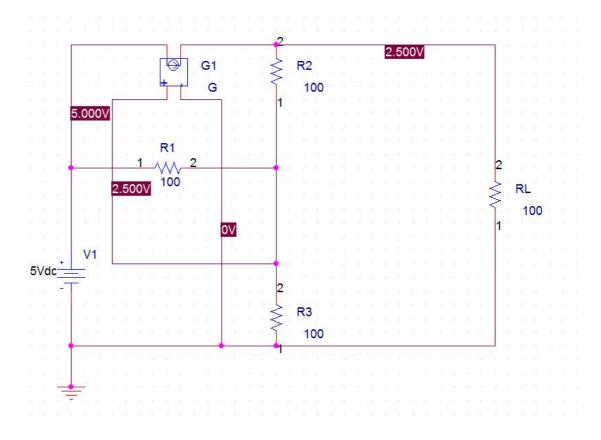


Fig. 1

- a) Find the Thévenin equivalent for the circuit at the terminals AB in Figure 1.
- b) Determine the voltage V_L across the resistor RL.
- c) If the voltage source Vs contains both DC and AC components, i.e., Vs = V + v, where V is DC value (offset), and v is the incremental component (so-called small signal). Determine the voltage V_L

across the resistor RL.

d) Verify your answers using PSpice.



Hint: Circuit in PSpice for DC VS...