

FACULATY OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING

ENEE 2101

Circuits Laboratory

Experiment.6 Prelab

First Order Circuits

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Supervised by:

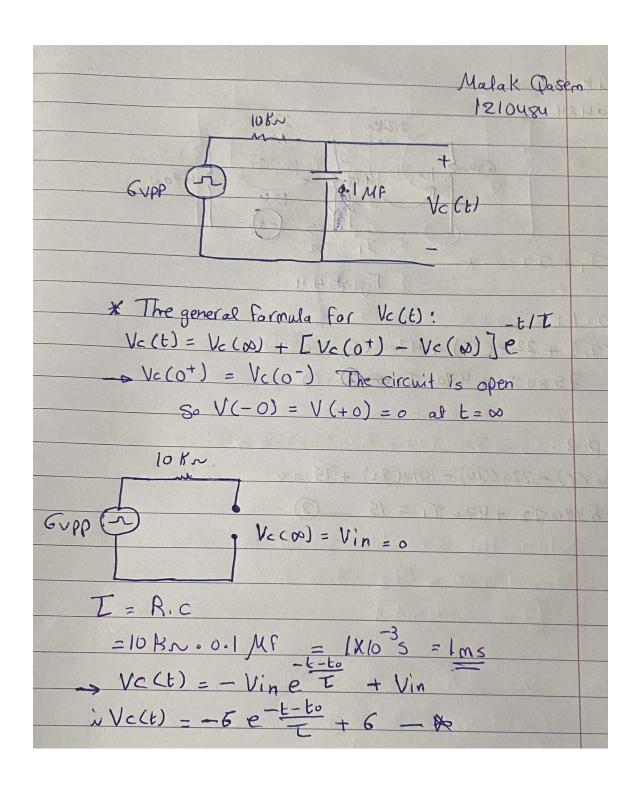
Dr. Jaser Sa'ed

Teacher assistance:

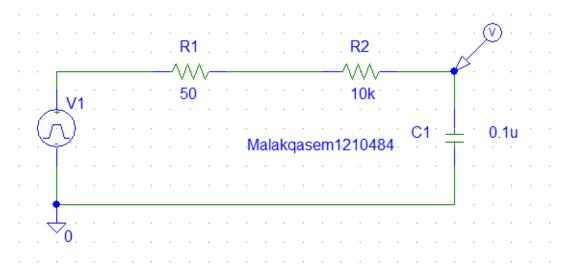
Eng. Mohammed Deek

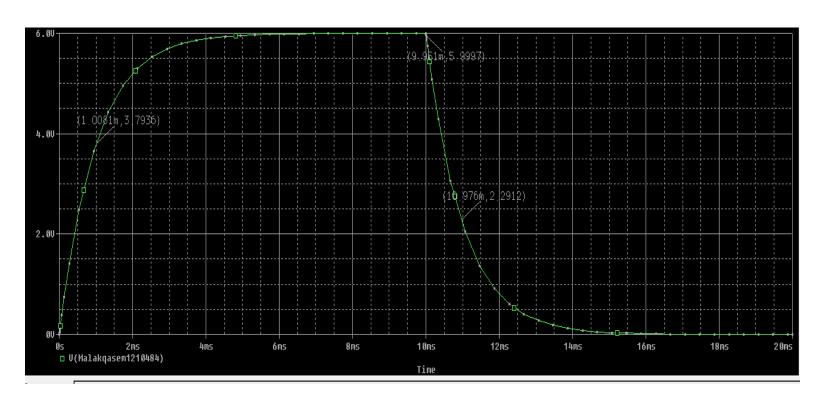
October 21, 2024

Part A: Step response of First-order RC circuit:

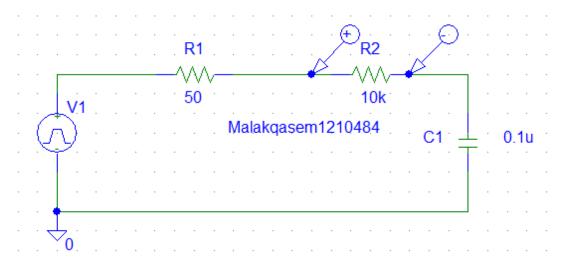


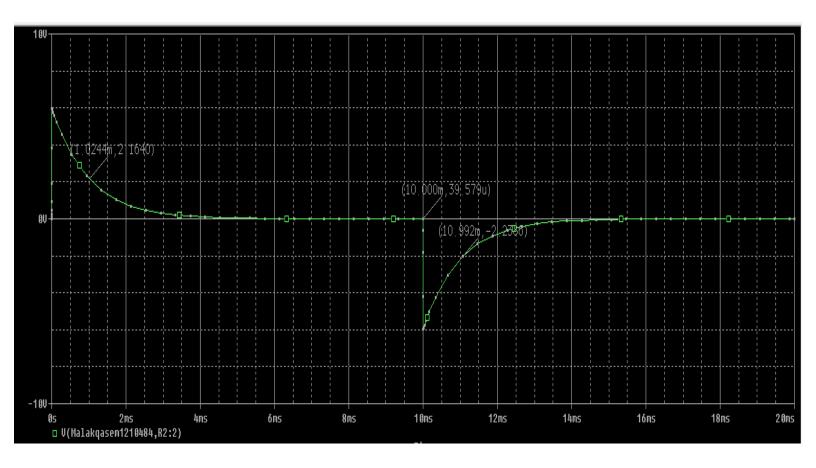
• The voltage over the Capacitor:



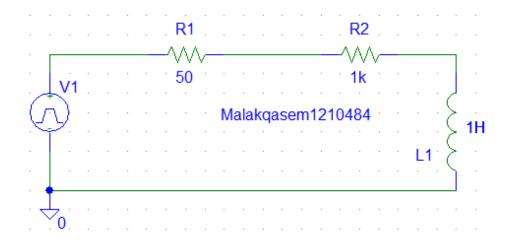


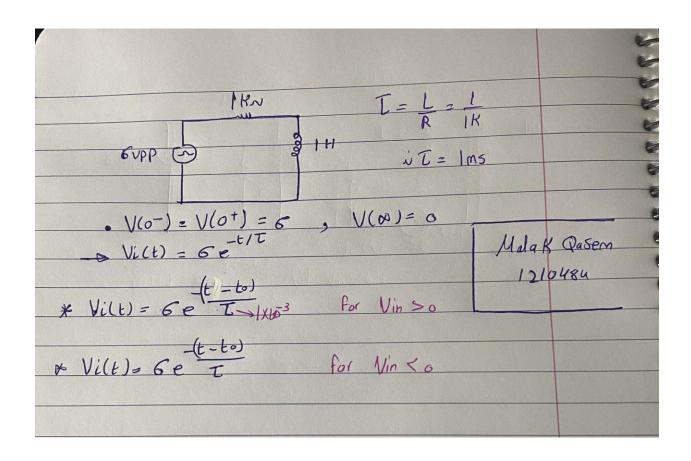
• The voltage over the Resistor:



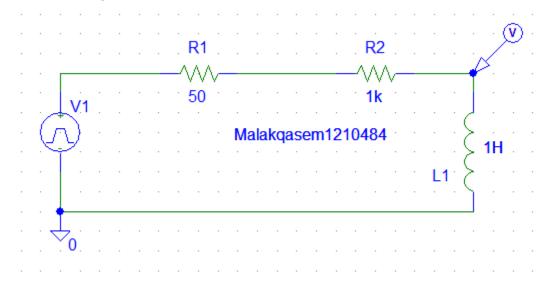


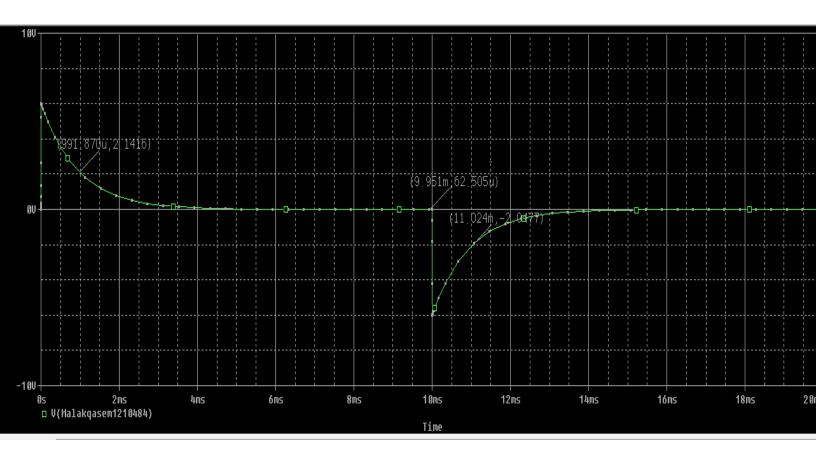
Part B: Step response of First-order RL circuit:





• The voltage over the Inductor:





• The voltage over the Resistor:

