

ECSE597/ECSE472

Assignment #1

Question 1. Add the stamps for the following elements in functions named *makeGmatrix.m*, *makeCmatrix.m*, and *makeBvect.m*

- a. Resistor (*already Implemented*)
- b. Capacitor
- c. Inductor
- d. Voltage Source (*already Implemented for DC voltage sources*)
- e. Current Source
- f. Voltage Controlled Voltage Source
- g. Voltage Controlled Current Source
- h. Current Controlled Current Source
- i. Mutual Inductor
- j. Ideal opamp

Question 2. Write a frequency analysis function named *fsolve.m*.

Run all test bench functions provided to test your simulator.

Deliverables:

1. Submit all your code in a zip file.
2. Submit a PDF file containing your results for all testbench functions.