



EAST WEST UNIVERSITY

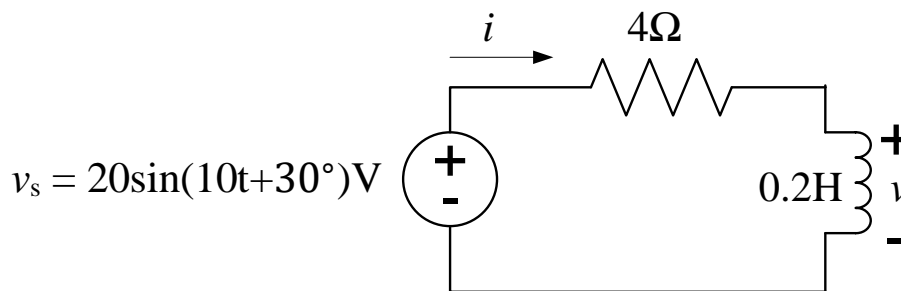
Department of Computer Science and Engineering
B.Sc. in Computer Science and Engineering Program
Final Examination, Summer 2020 Semester

Course: CSE 209 Electrical Circuits, Section-2
Instructor: M Saddam Hossain Khan, Senior Lecturer, CSE Department
Full Marks: 15 (15 will be counted for final grading)
Time: 1 Hour and 30 Minutes (Including submission)

Note: There are FIVE questions, answer ALL of them. Course Outcome (CO), Cognitive Level and Mark of each question are mentioned at the right margin.

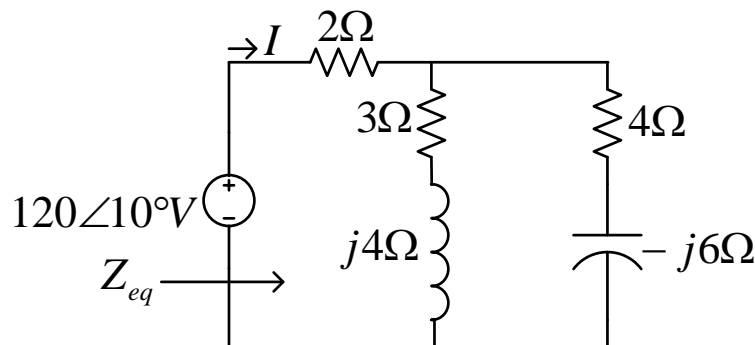
1. Determine $v(t)$ and $i(t)$ in the following circuit.

[CO1,C2,
Mark:2]



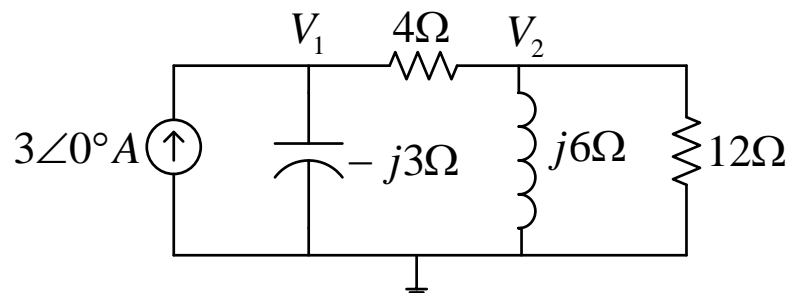
2. Determine Z_{eq} and I for the following circuit.

[CO1,C2,
Mark: 3]



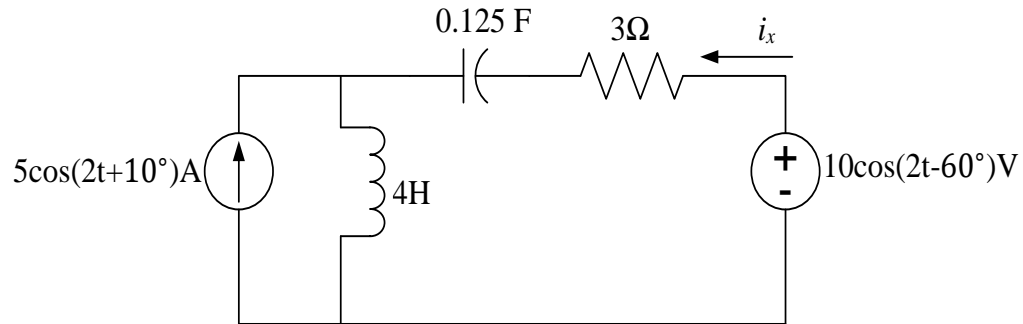
3. Using nodal analysis, compute V_1 for the following circuit.

[CO3,C4,
Mark: 3]



4. Using the superposition principle, **find** i_x in the following circuit.

[CO3,C4,
Mark:3]



5. **Find** the value of Z_L that will absorb the maximum power and the value of the maximum power in the following circuit.

[CO3,C4,
Mark:4]

