**EAST WEST UNIVERSITY**
Department of Computer Science and Engineering
B.Sc. in Computer Science and Engineering Program
In Course Assessment - 2, Spring 2021

Course: **CSE 209 – Electrical Circuits, Section-4**
Instructor: **SHK, Senior Lecturer, CSE Department**
Full Marks: **19**
Time: **1 Hour and 30 Minutes [Including submission time]**

Note: There are FOUR questions, answer ALL of them. Course outcomes (CO), cognitive levels and marks of each question are mentioned at the right margin.
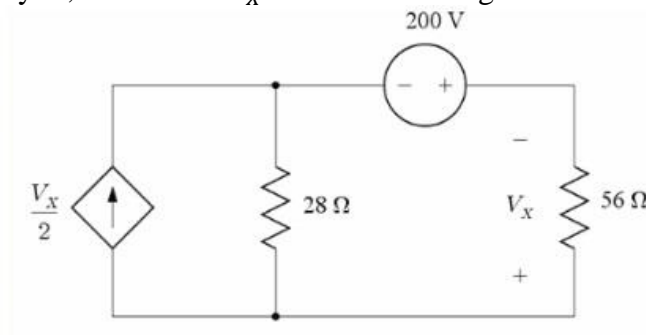
1a. **Apply** nodal analysis to determine i_0 from the circuit given below.   [CO2, Mark:4]
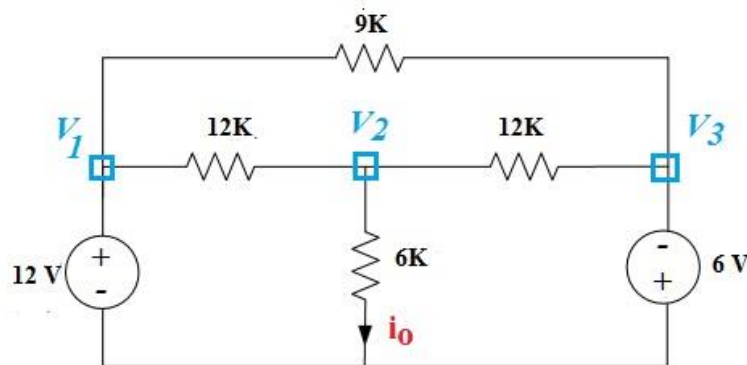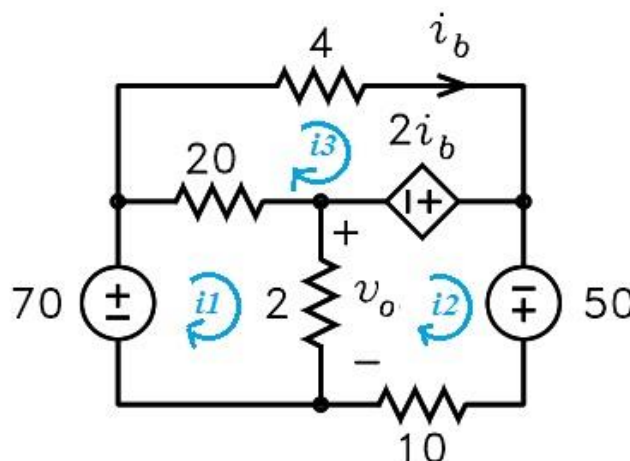

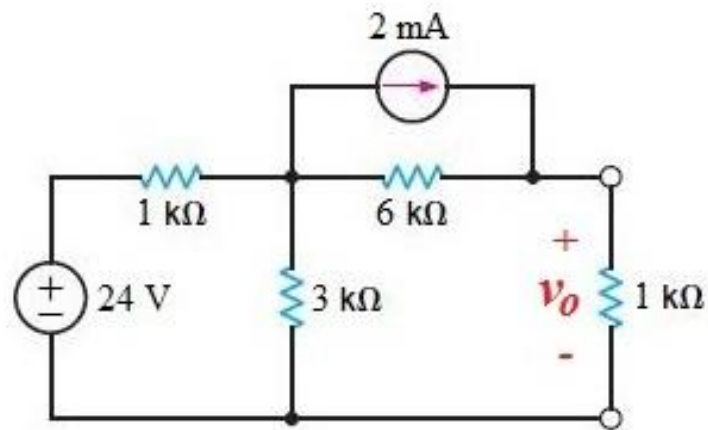**1b.** Using nodal analysis, **determine** V_X from the circuit given below.   [CO2, Mark:2]

2. Using mesh currents indicated in the circuit, **determine** v_0 in the following circuit.   [CO2, Mark:6]

3. **Use** most effective source transformation to determine v_0 in the following circuit. [CO2, Mark: 3]

4. **Use** superposition technique to determine i in the following circuit. [CO2, Mark: 4]