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VIT

Vellore Institute of Technology

Continuous Assessment Test - I

B.Tech - ECE

Network Theory - ECE2001

Class Number: VL2018195005887/6008/5885/5889/5893/5895

Slot: D2

Exam Duration: 90 Min

Maximum Marks: 50 M

General instruction(s): Assume missing data if any and justify the assumption

Answer ALL the Questions (5*10=50 M)

1. Solve for the current I in the circuit of Fig. 1, using nodal analysis.

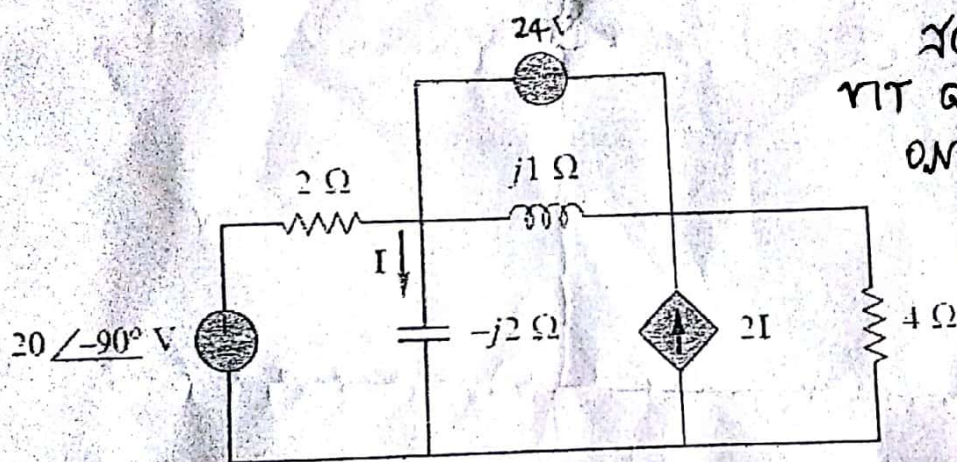


Fig. 1

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2. Find the voltage across the impedance $(5+j11) \Omega$ using Norton's theorem for the circuit shown in Fig. 2.

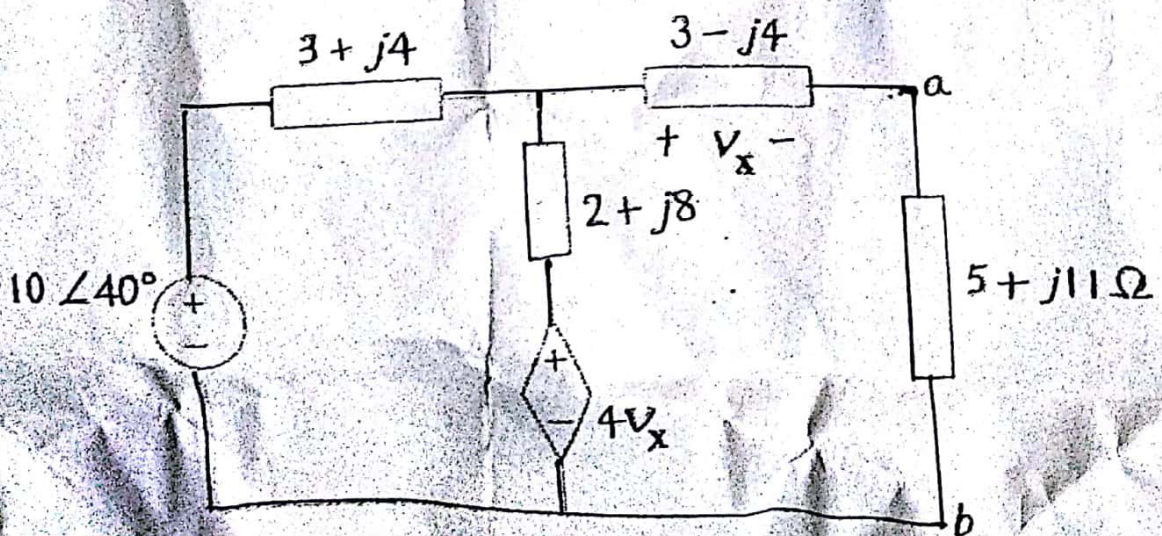


Fig. 2