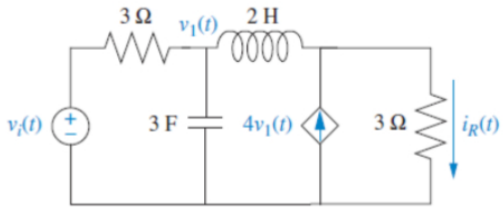
Question: 1. Represent the electrical network shown below in state space, ...

1. Represent the electrical network shown below in state space, where $i_R(t)$ is the output.



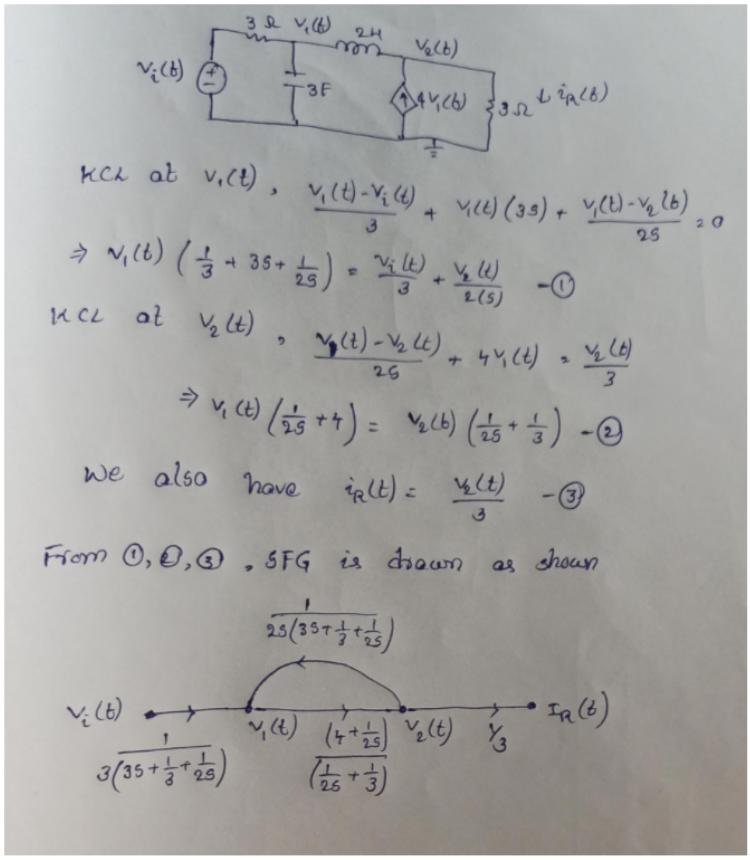
Show transcribed image text

Expert Answer

Anonymous answered this
392 answers

Was this answer helpful? 0 0

The signal flow graph is drawn from KCL equation at the 2 nodes as shown below.



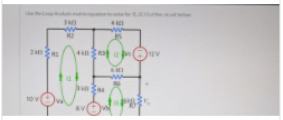
Comment if you have any doubt.

Thank you

Comment >

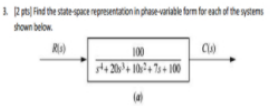
Up next for you in Electrical Engineering

Use the Loop Analysis matrix equation to solve for 11, 12, 13 of the circuit below: 3 KΩ 4 KΩ R2 R5 2 ke 3 R1 4k 3 R…



See answer

Please show all work. Thanks!



See answer

See more questions for subjects you study

Questions viewed by other students

Q: 2. Find the state-space representation in phase-variable form for each of the systems shown below. R(S) C(s) 100 34+2033 + 1052 + 7s + 100 (a) R(S) C(s) 30 S5 +854 +993 +682 +5+ 30 (b)

A: See answer 100% (1 rating)

Q: Represent the electrical network shown below in state space, where ir(t) is the output. Find the system's transfer function. 312 2H üü 0000 35 – 40,16 1,(0) 30 3iro

A: See answer

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