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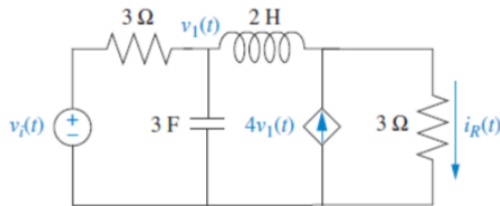
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Question: 1. Represent the electrical network shown below in state space, ...



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



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Expert Answer

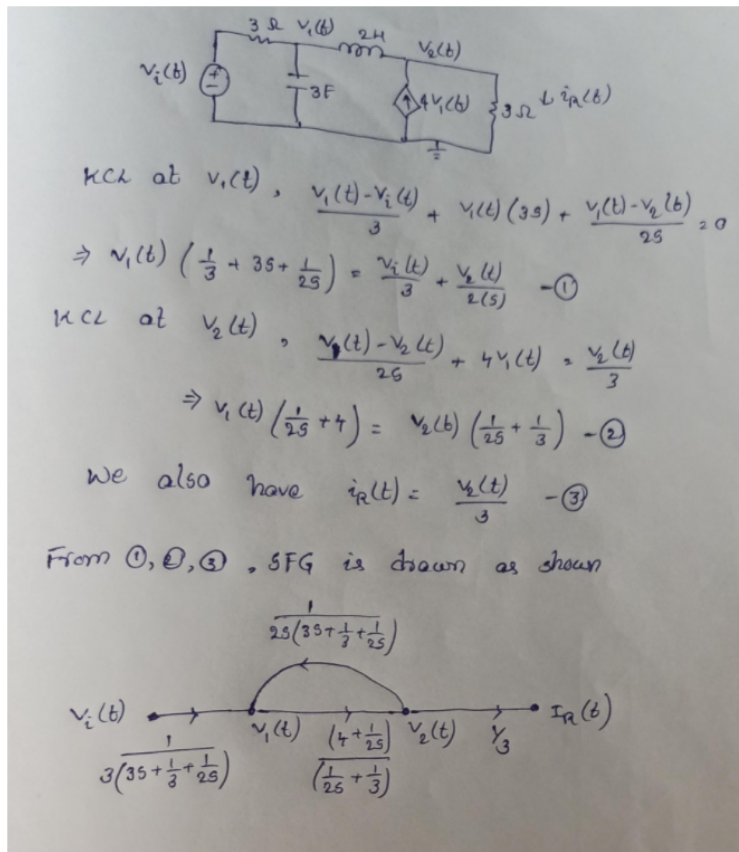


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The signal flow graph is drawn from KCL equation at the 2 nodes as shown below.



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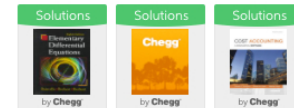
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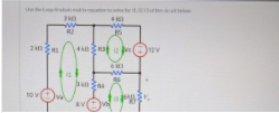
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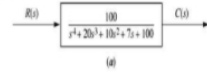
Use the Loop Analysis matrix equation to solve for I_1 , I_2 , I_3 of the circuit below: $3\text{ K}\Omega$, $4\text{ K}\Omega$, R_2 , R_5 , 2 ke , 3 R_1 , 4 k , $3\text{ R}...$



See answer

Please show all work. Thanks!

1. (2 pts) Find the state-space representation in phase-variable form for each of the systems shown below.



See answer

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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 $5s + 854 + 993 + 682 + 5s + 30$ (b)

A: See answer 100% (1 rating)

Q: Represent the electrical network shown below in state space, where $i_r(t)$ is the output. Find the system's transfer function. 312 $2H$ \ddot{u} 0000 $35 - 40,16$ $1,(0)$ 30 $3i_r$

A: See answer

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