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Started on	Sunday, 29 August 2021, 8:15 PM
State	Finished
Completed on	Sunday, 29 August 2021, 8:29 PM
Time taken	14 mins 43 secs
Grade	10.00 out of 10.00 (100%)

Question 1

Correct

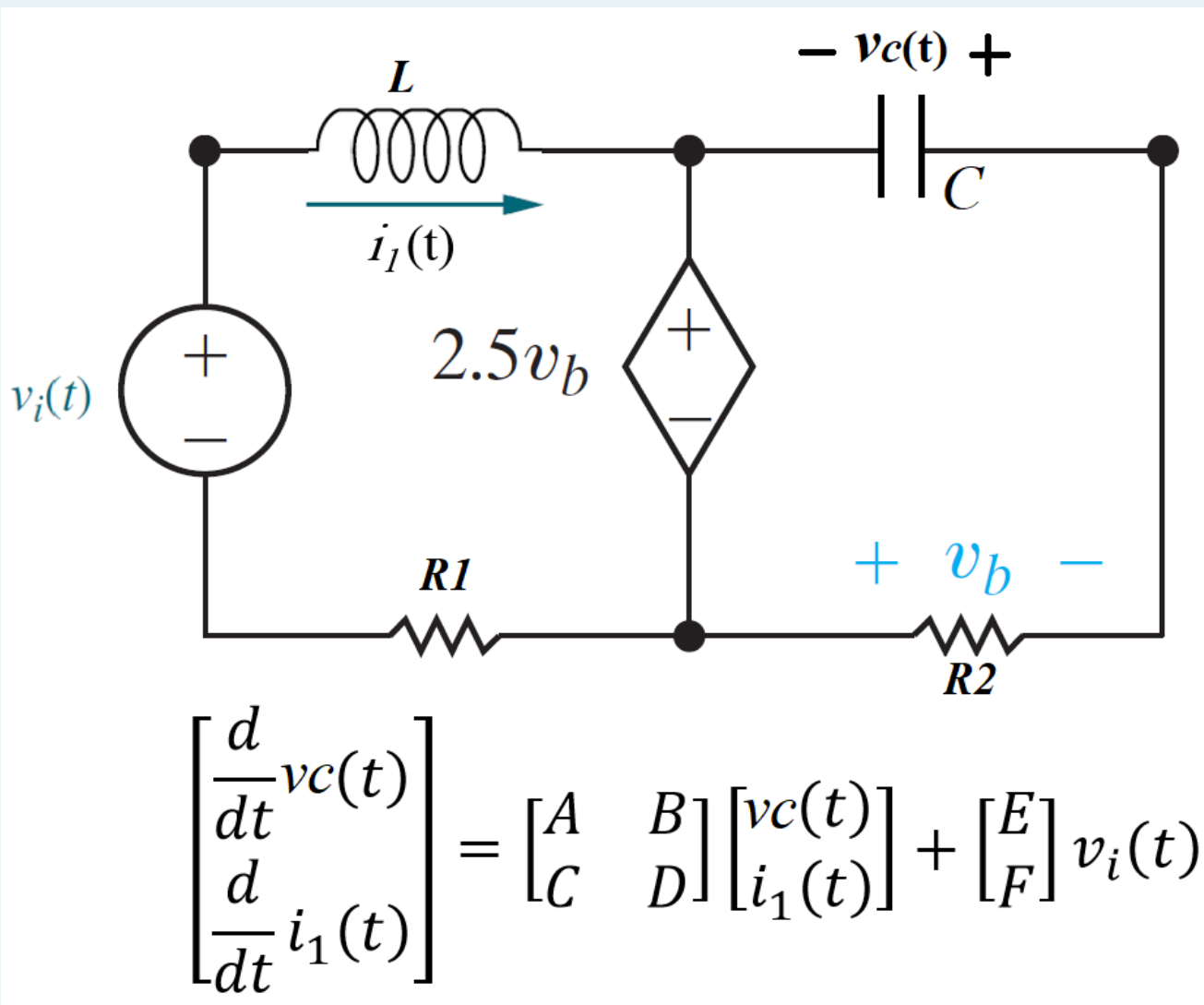
Mark 10.00 out of 10.00

Answer the questions below, (Insert the numerical value only, do not use <, >, +, *, or /)

The Relative error for your answer should be less than 0.01, which means if the answer was 50, then the error should not exceed $50 * 0.01 = \pm 0.5!$

if the answer was 230, then the error should not exceed $230 * 0.01 = \pm 2.3!$

if the answer was $2.31467 * 10^{-3}$, then you should enter this value: 0.00231467, not this 0.0023 !!!!



If $R1=8$ ohm, $R2=19$ ohm, $L=0.85$ H and $C=0.325$ F. Write the state equations of the above network. Use the current through the inductor and the voltage across the capacitor as state variables. **Follow the order of the equations provided in this figure in order to find the constants from A to F.**

The value of the constant A is:



One possible correct answer is: -0.04626951995373

The value of the constant B is:



One possible correct answer is: 0

The value of the constant C is:



One possible correct answer is: 0.84033613445378

The value of the constant D is:



One possible correct answer is: -9.4117647058824

The value of the constant E is:



One possible correct answer is: 0

The value of the constant F is:



One possible correct answer is: 1.1764705882353

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