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Started on	Sunday, 29 August 2021, 8:00 PM
State	Finished
Completed on	Sunday, 29 August 2021, 8:10 PM
Time taken	9 mins 54 secs
Grade	10.00 out of 10.00 (100%)

Question 1

Correct

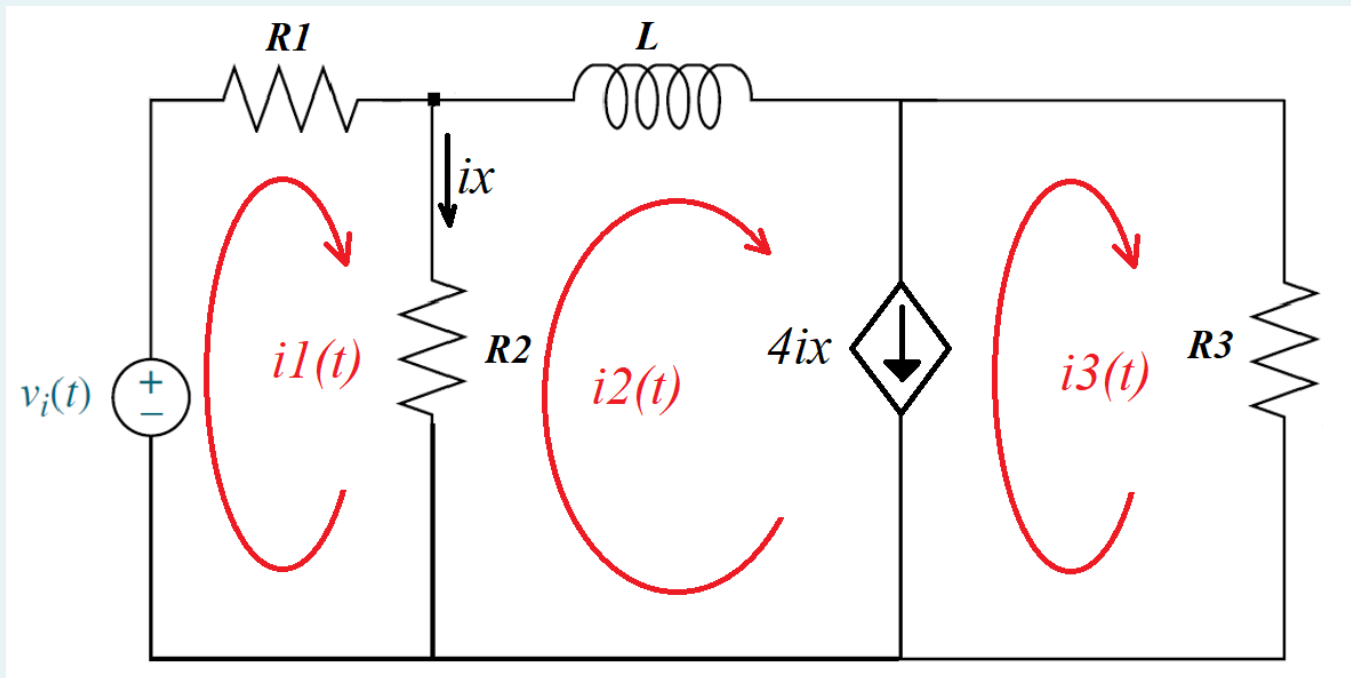
Mark 10.00 out of 10.00

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 $R1=5$ ohm, $R2=18$ ohm, $R3=8$ ohm, $L=0.3$ H. write, but do not solve, the mesh equation of the above system.

Follow the order of the equations provided in this figure in order to find the constants from A1 to A8.

(A1) $I_1(s)$ + (A2) $I_2(s)$ + (A3) $I_3(s) = V_i(s)$

(A4) $I_1(s)$ + (0.3 S + A5) $I_2(s)$ + (A6) $I_3(s) = 0$

(A7) $I_1(s)$ + (A8) $I_2(s)$ + (1) $I_3(s) = 0$

The value of the constant A1 is:



One possible correct answer is: 23

The value of the constant A2 is:



One possible correct answer is: -18

The value of the constant A3 is:



One possible correct answer is: 0

The value of the constant A4 is:



One possible correct answer is: -18

The value of the constant A5 is:



One possible correct answer is: 18

The value of the constant A6 is:



One possible correct answer is: 8

The value of the constant A7 is:



One possible correct answer is: 4

The value of the constant A8 is:



One possible correct answer is: -5



◀ Quiz #6

Jump to...



Quiz #4 Redo ▶