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Keep Learning

grade 90%

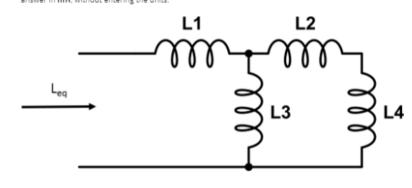
Module 7 Quiz

TO PASS 70% or higher

LATEST SUBMISSION GRADE 90%

1. What is the equivalent inductance for the following circuit if $L_1=L_2=L_3=L_4=5mH$? Give your answer in mH, without entering the units.

1/1 point



8.33

✓ Correct

2. What is the equivalent capacitance for the following circuit if $C_1=C_2=C_3=10pF$? Give your answer in ${\bf pF}$, without entering the units.

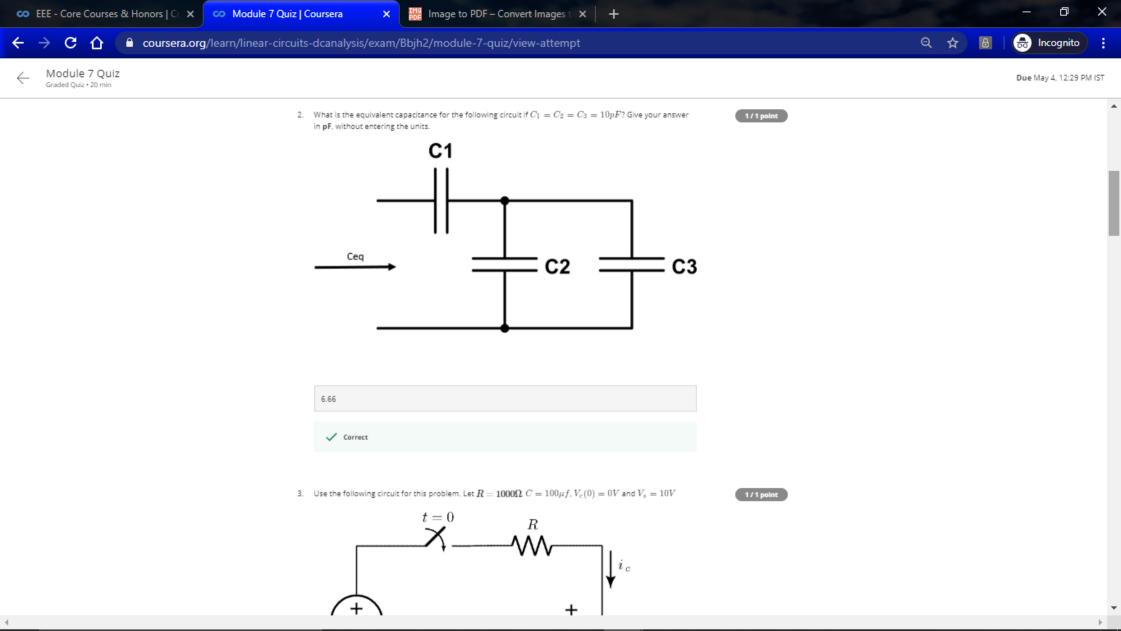
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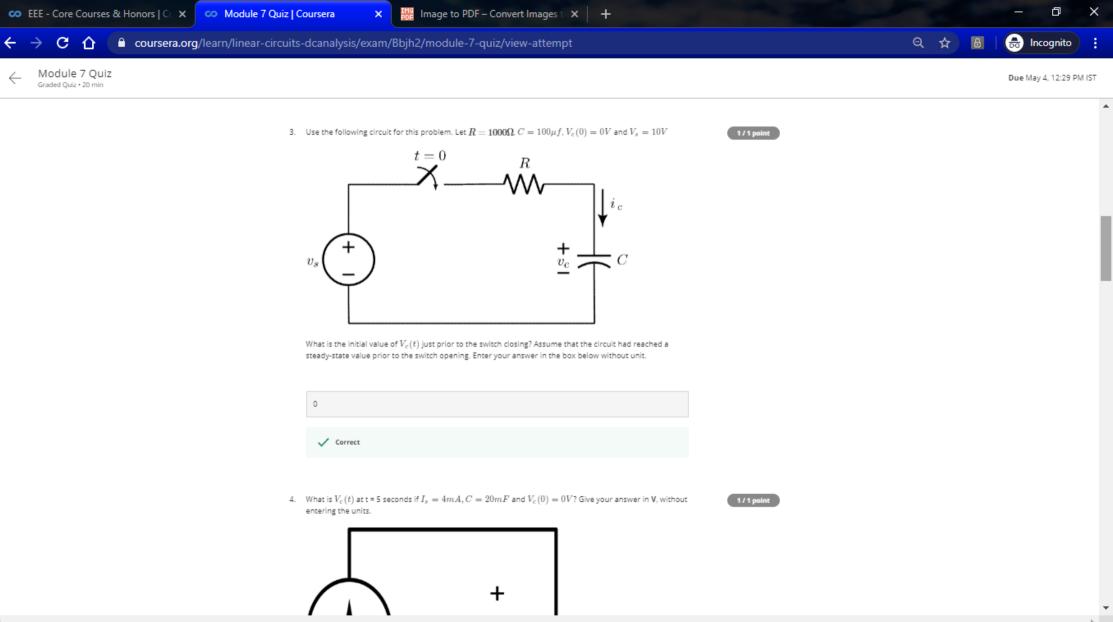
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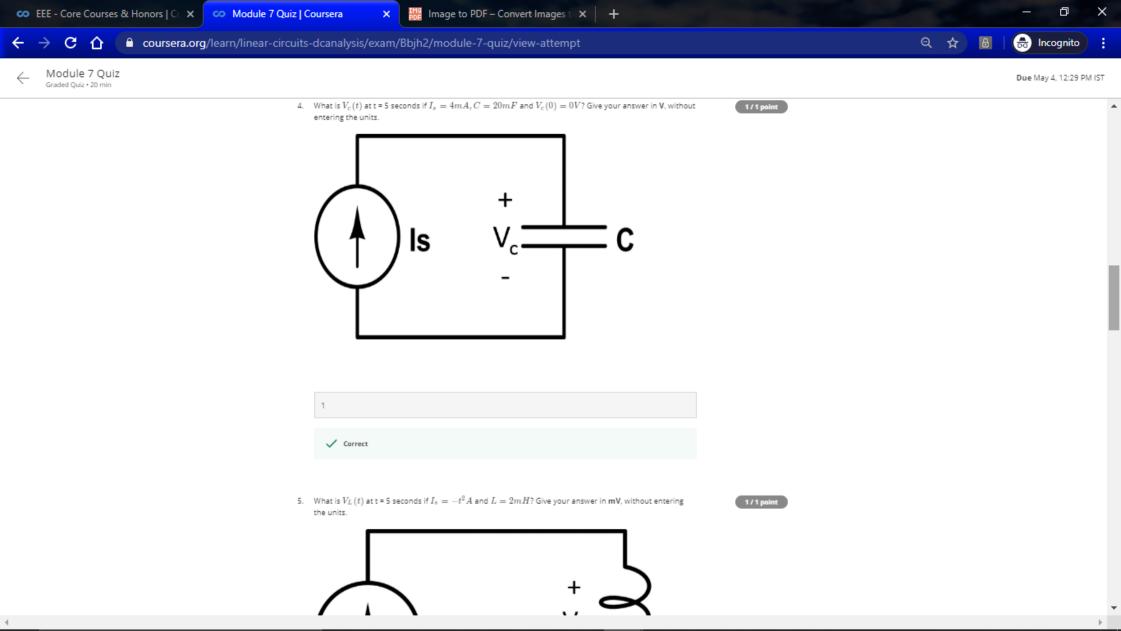
Module 7 Quiz

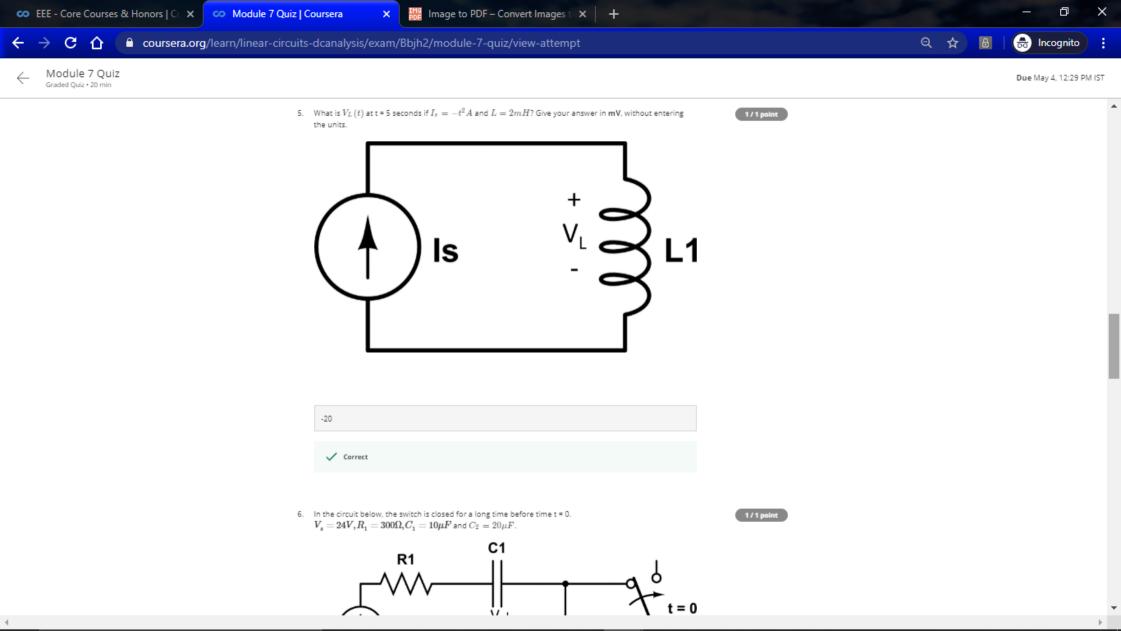
Graded Quiz • 20 min

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Due May 4, 12:29 PM IST









♠ coursera.org/learn/linear-circuits-dcanalysis/exam/Bbjh2/module-7-quiz/view-attempt





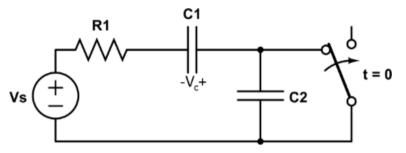


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Module 7 Quiz Graded Quiz • 20 min

6. In the circuit below, the switch is closed for a long time before time t = 0. $V_s = 24V, R_1 = 300\Omega, C_1 = 10\mu F$ and $C_2 = 20\mu F$.





What is the voltage $V_{\rm C}$ across capacitor C_1 when the switch is closed? Give your answer in V, without entering the units.

-24

✓ Correct

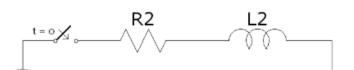
7. Suppose you have the following circuit. The switch has been open for a long time, and is closed at time t =

0 / 1 point

Assume
$$V_{
m o}=5V, R_{
m o}=10k\Omega, L_{
m o}=2mH, C_{
m o}=0.1\mu F$$

The second order differential equation for the voltage across the capacitor is

$$d^{2}V_{c}(t)/dt + a_{1}dV_{c}(t)/dt + a_{2}V_{c} = K$$











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Due May 4, 12:29 PM IST

Module 7 Quiz Graded Quiz • 20 min

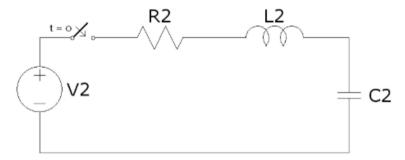
0 / 1 point

7. Suppose you have the following circuit. The switch has been open for a long time, and is closed at time t = 0.

Assume $V_2=5V, R_2=10k\Omega, L_2=2mH, C_2=0.1\mu F$

The second order differential equation for the voltage across the capacitor is

$$d^{2}V_{c}(t)/dt + a_{1}dV_{c}(t)/dt + a_{2}V_{c} = K$$



What is the coefficient K of the 2nd order differential equation for this circuit? Do not use scientific notation.

10

Incorrect

8. By rotating the dial of an antenna tuner, what are we manipulating within the circuit element?

1/1 point

Resistance

Canacitance

