

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.

1/1 point



Due Apr 20, 12:29 PM IST

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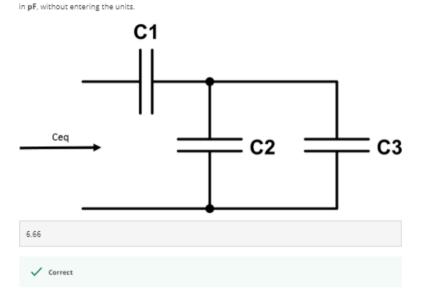
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Module 5 Quiz Graded Quiz • 30 min

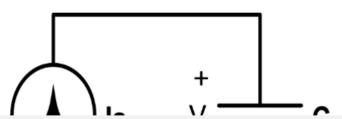
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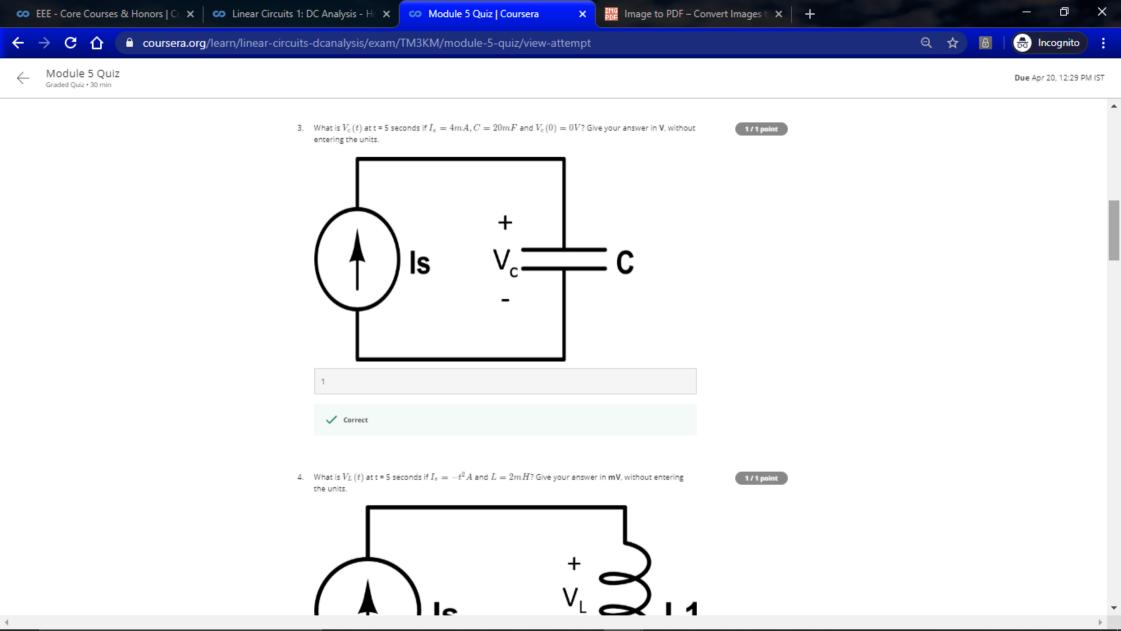
2. What is the equivalent capacitance for the following circuit if $C_1=C_2=C_3=10 pF$? Give your answer

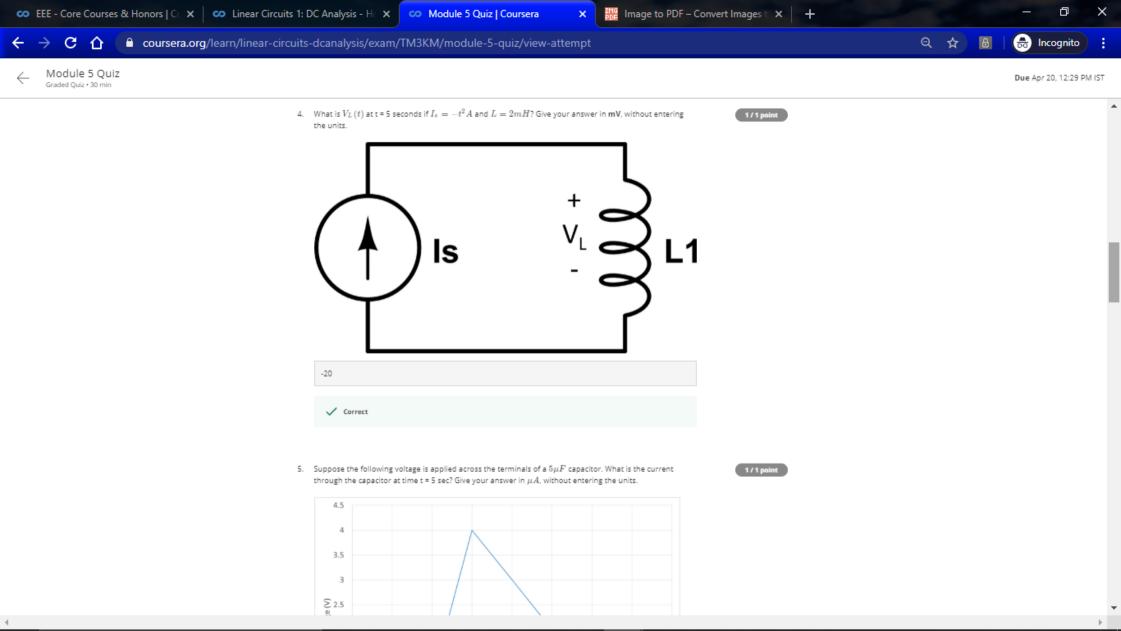




3. What is $V_c(t)$ at t = 5 seconds if $I_s=4mA, C=20mF$ and $V_c(0)=0V$? Give your answer in **V**, without entering the units.









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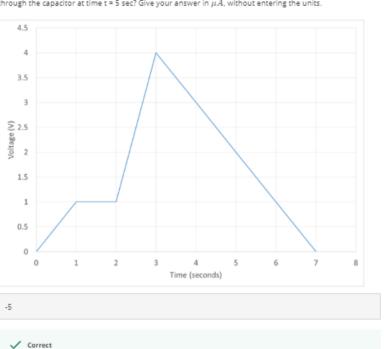
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 Suppose the following voltage is applied across the terminals of a 5µF capacitor. What is the current through the capacitor at time t = 5 sec? Give your answer in µA, without entering the units.



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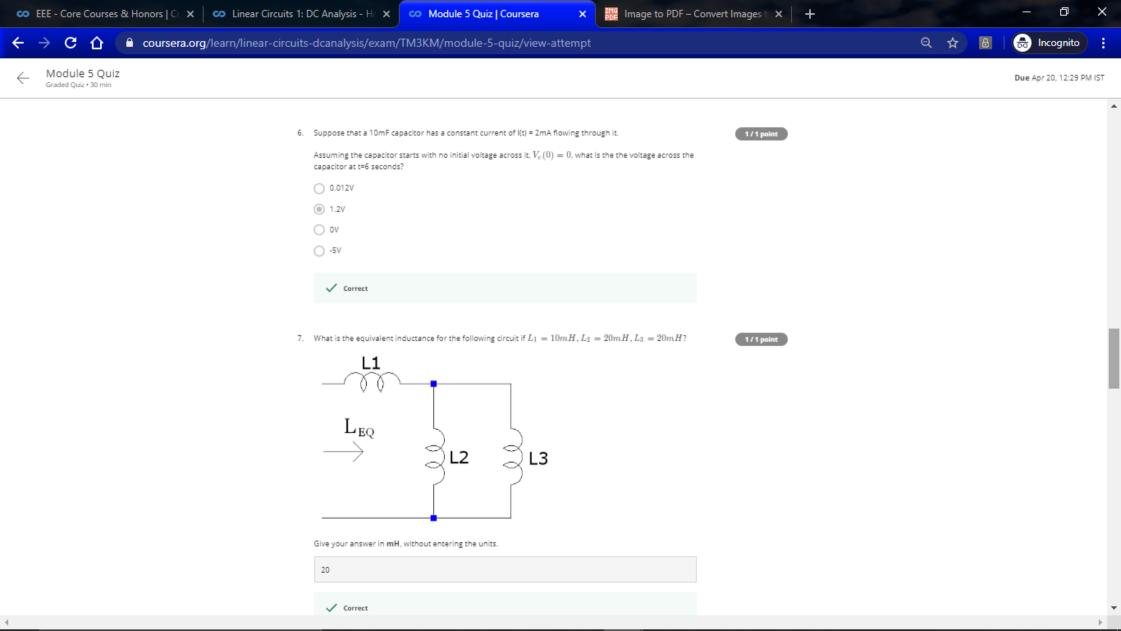
6. Suppose that a 10mF capacitor has a constant current of I(t) = 2mA flowing through it.

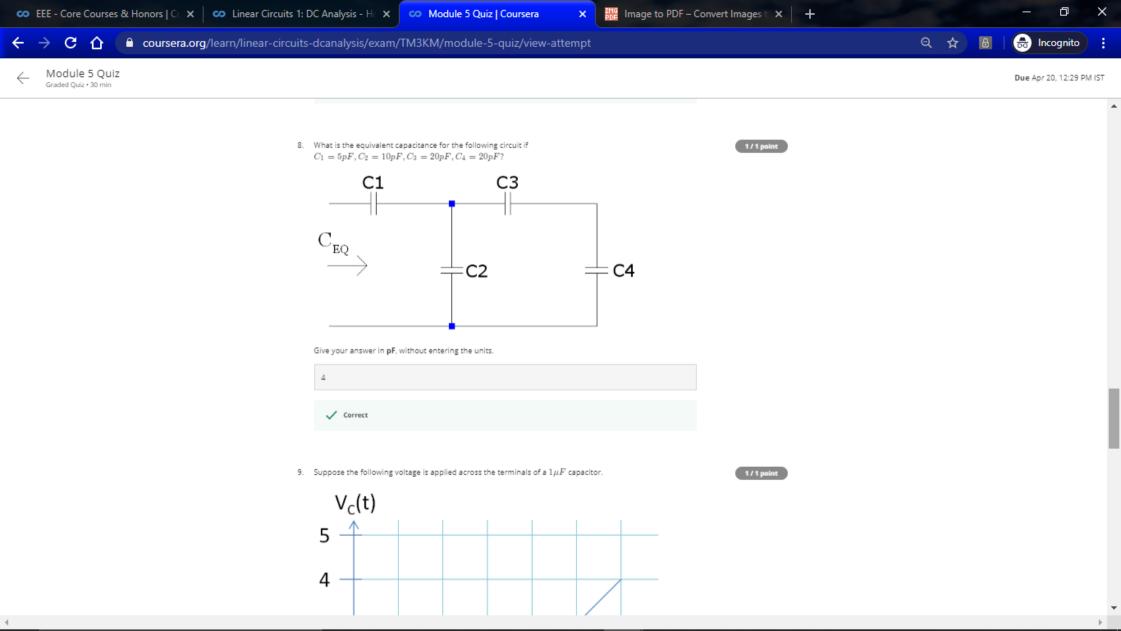
Assuming the capacitor starts with no initial voltage across it, $V_{\rm c}(0)=0$, what is the the voltage across the capacitor at t=6 seconds?

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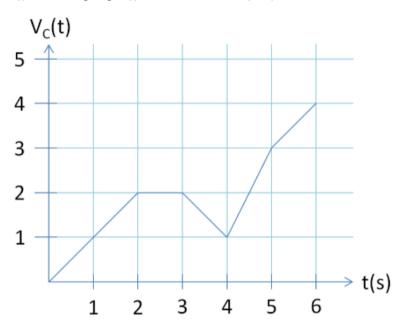
Module 5 Quiz Graded Quiz • 30 min

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9. Suppose the following voltage is applied across the terminals of a $1\mu F$ capacitor.



What is the current through the capacitor at time t = 4.5 sec? Give your answer in μA , without entering the units.

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