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Started on Friday, 3 June 2022, 8:52 PM

State Finished

Completed on Friday, 3 June 2022, 9:04 PM

Time taken 12 mins 56 secs

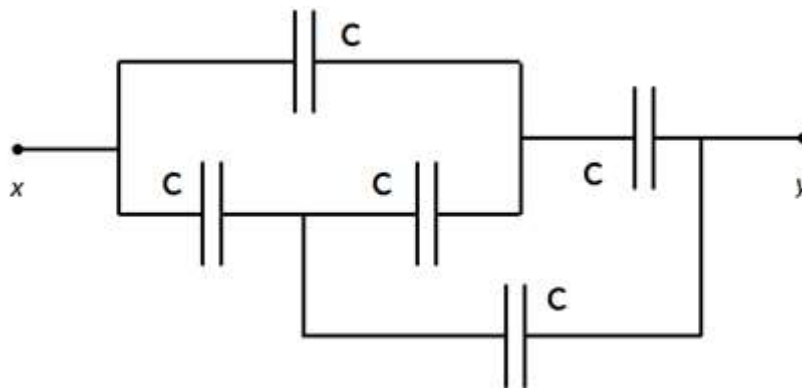
Grade 5.00 out of 5.00 (100%)

Question 1

Correct

Mark 1.00 out of
1.00

Find the equivalent capacitance (in μF) between the nodes x and y. Given $C=285\ \mu\text{F}$.



Answer: ✓

The correct answer is: 285.00



Question 2

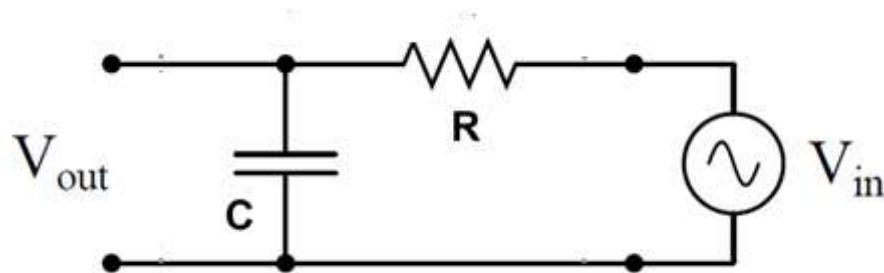
Correct

Mark 1.50 out of

1.50

The circuit shown below is a _____ with a cut off frequency of _____.

Given $R=33\text{ k}\Omega$ and $C=91\text{ nF}$.



Select one:

- ☒ Low pass filter with cut off frequency of 53.026 Hz ✓
- ☐ High pass filter with cut off frequency of 53.026 Hz
- ☐ High pass filter with cut off frequency of 0.053 Hz
- ☐ Low pass filter with cut off frequency of 0.053 Hz

Your answer is correct.

The correct answer is: Low pass filter with cut off frequency of 53.026 Hz



Question 3

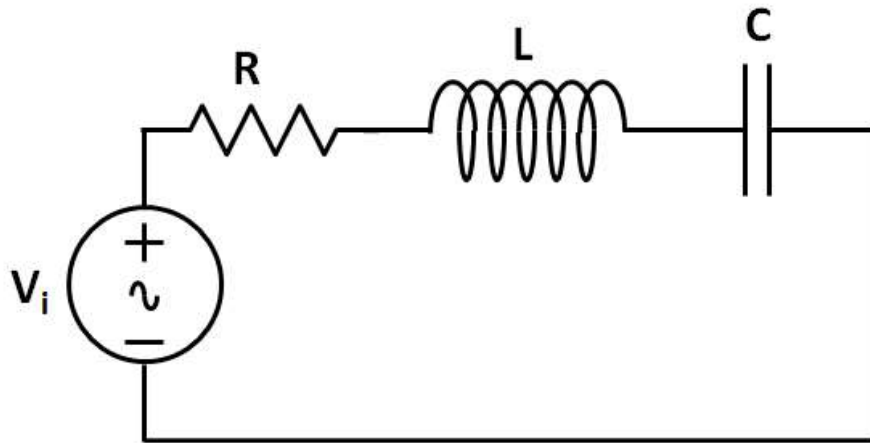
Correct

Mark 2.50 out of

2.50

Determine the frequency (in kHz) such that the imaginary part of the impedance of the RLC circuit shown below is zero.

Given $V_i = 10.6 \sin(\omega t)$ V, $R = 2777 \, \Omega$, $C = 91 \, \text{nF}$, $L = 33 \, \text{mH}$.



Answer:



The correct answer is: 2.90

