



**Faculty of Engineering and Technology
Electrical and Computer Engineering
Department**

**ENEE2102
CIRCUITS LAB**

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Experiment #6

Pre lab

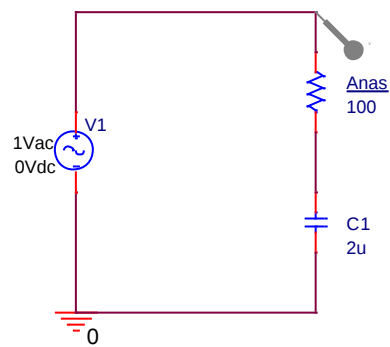
8/11/2017

Eng: Qais samara

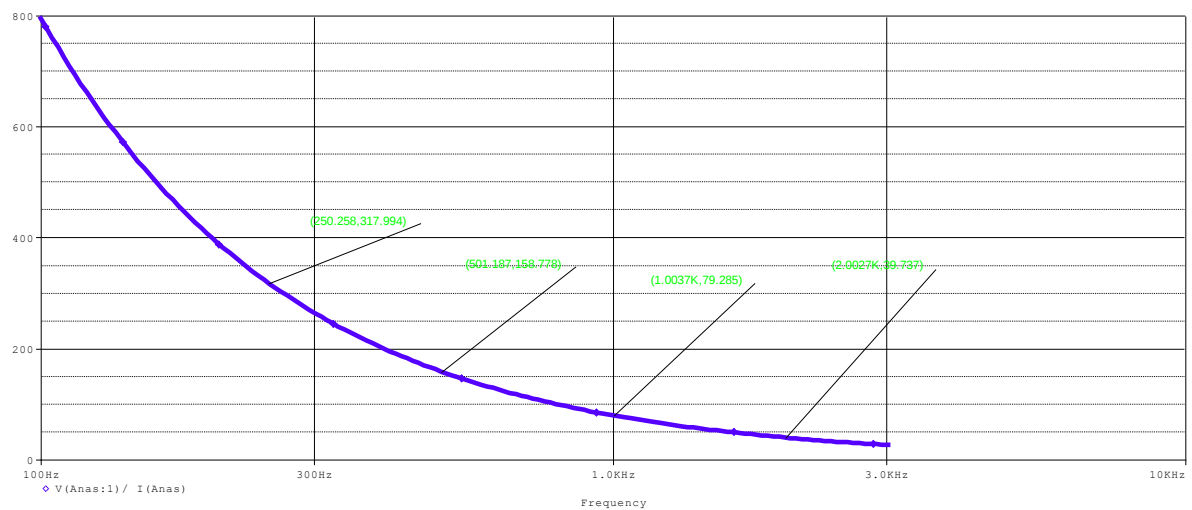
DR: Hakam shhada

Q2)

Circuit diagram:

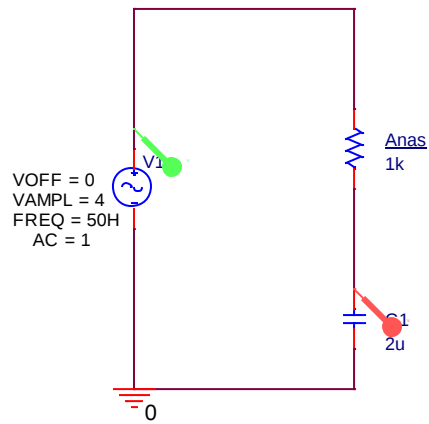


The result:

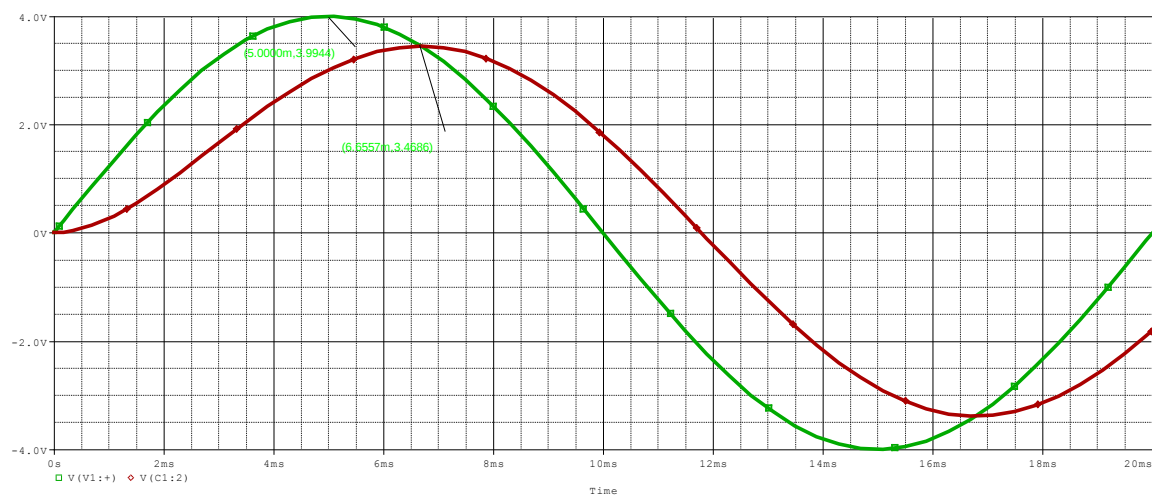


Q3)

For R=1K : circuit diagram:

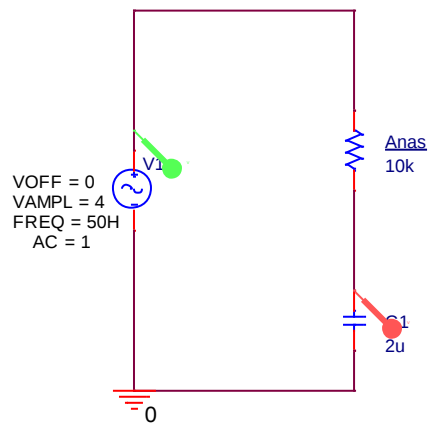


The result:

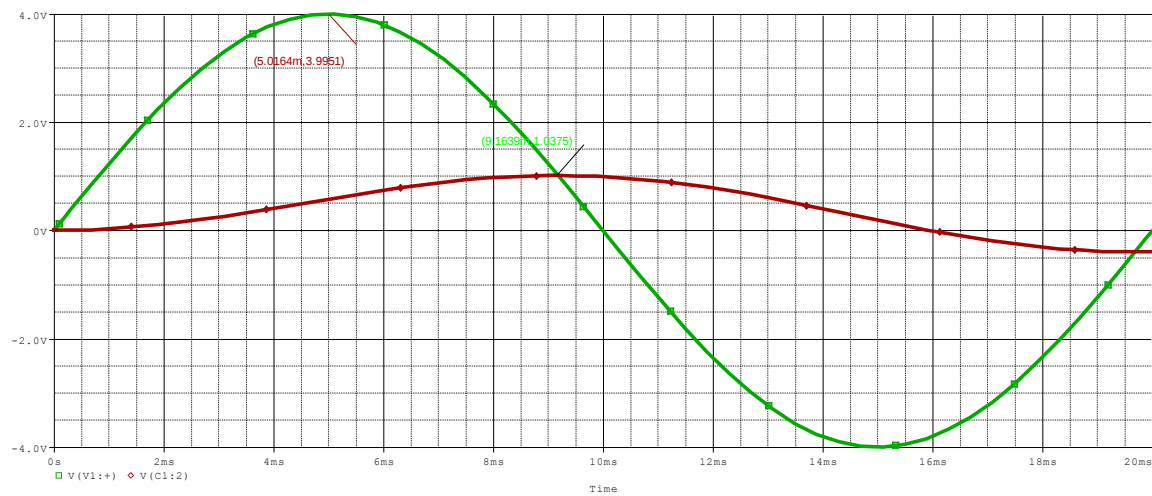


$$\Delta\theta = 360 \times 50 \times (6.65 - 5.0) \text{m} = 29.7$$

For R=10K: the circuit diagram:

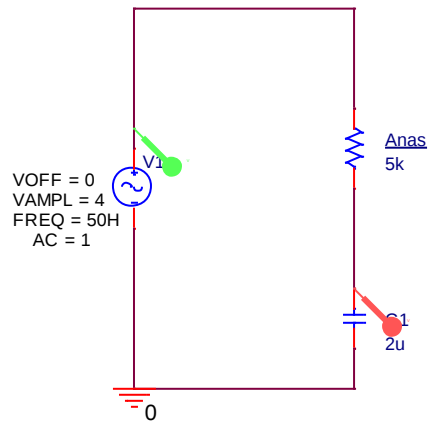


The result:

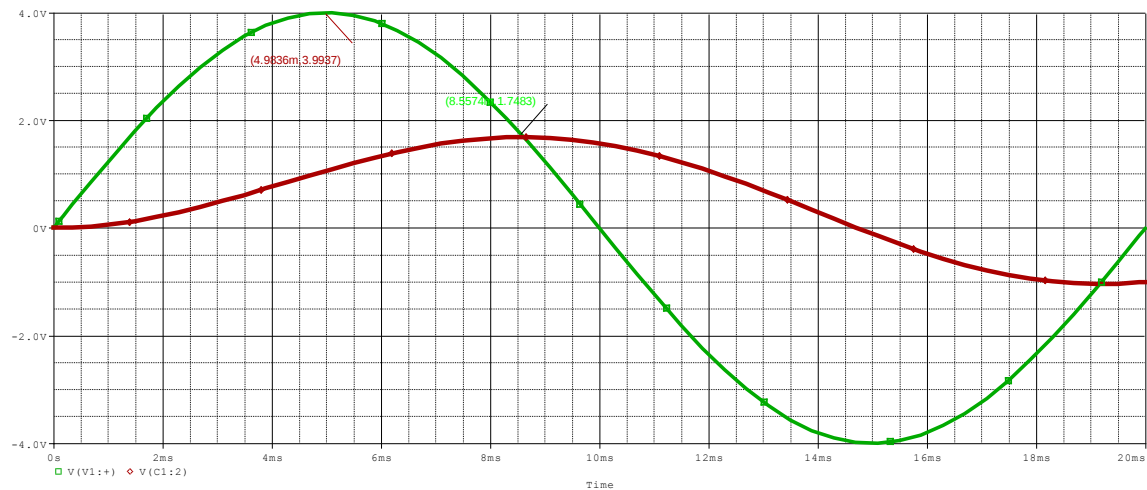


$$\Delta\theta = 360 \times 50 \times (9.1 - 5.0927) \text{m} =$$

For R=5k: circuit diagram:



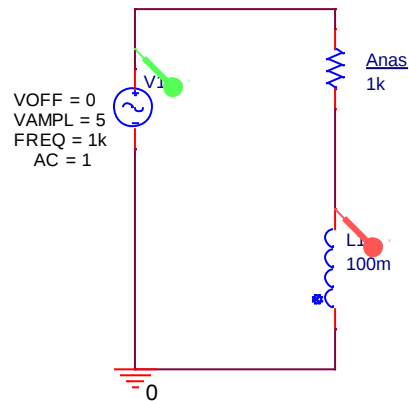
The result:



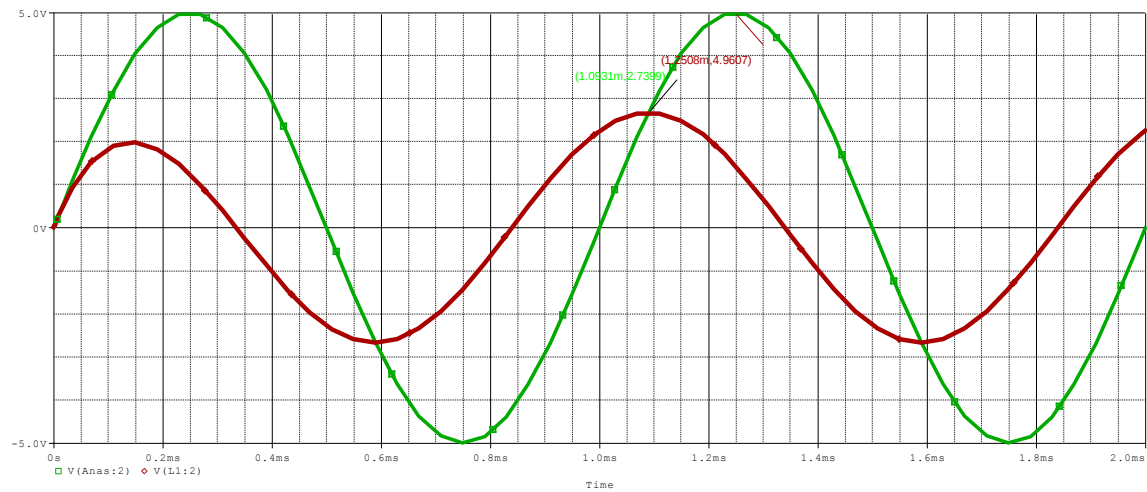
$$\Delta\theta = 360 \times 50 \times (8.5 - 4.98) \text{m} =$$

Q4)

For R=1K the circuit diagram:

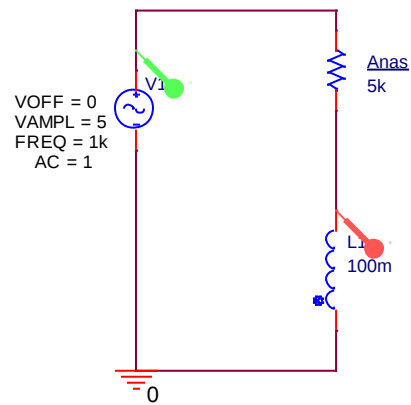


The result:

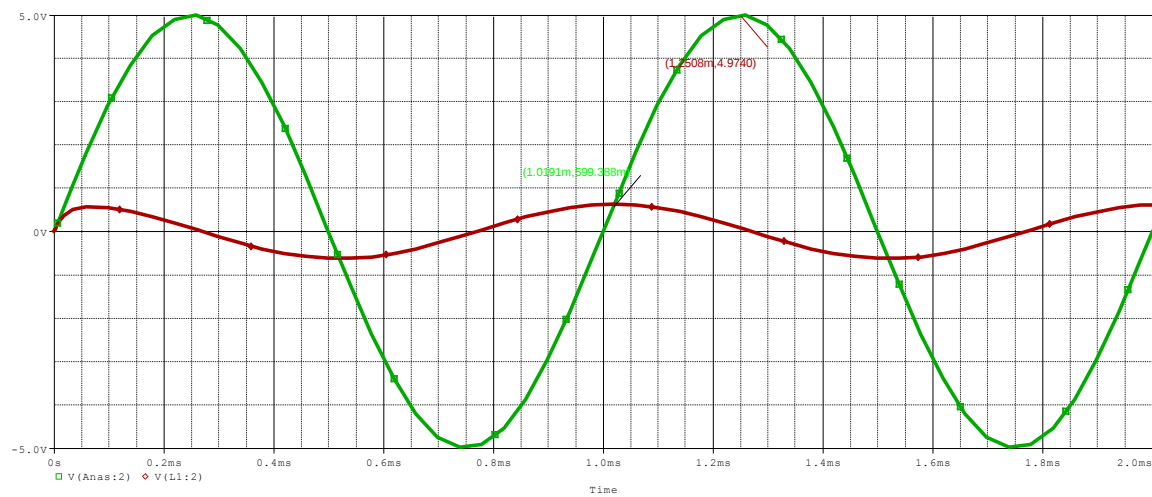


$$\Delta\theta = 360 \times 50 \times (1.25 - 1.09) \text{m} =$$

For R=5K:

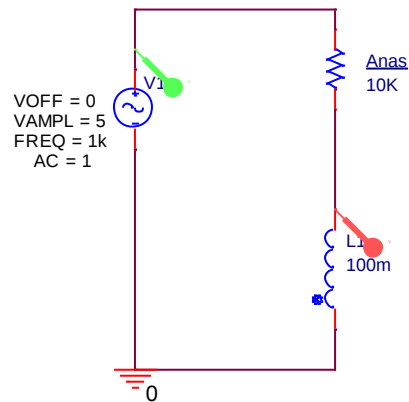


The result:

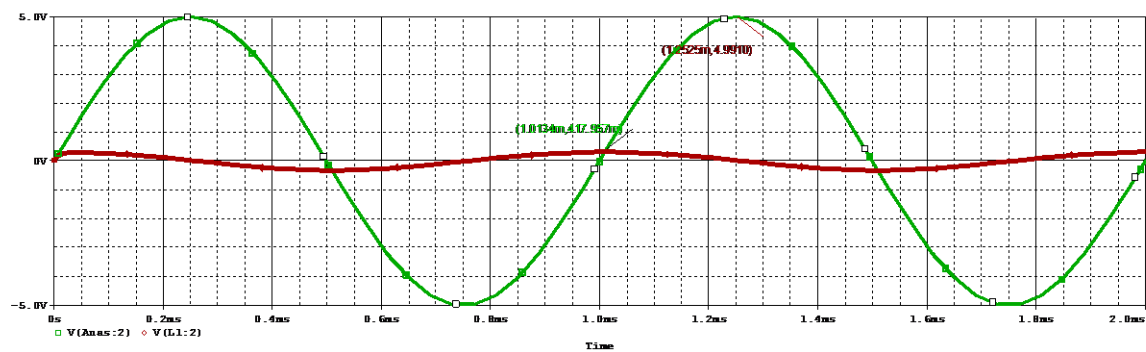


$$\Delta\theta = 360 \times 50 \times (1.250 - 1.019) \text{m} =$$

For R= 10K:



The result:



$$\Delta\theta = 360 \times 50 \times (1.252 - 1.0134) \text{m} =$$