

University of Ruse Angel Kanchev			
Department: Theoretical and measuring electrical engineering			
Course:			
Specialty:			
Student:			Fac. No:
Group:	Date:	Assistant:	

Report № 4

Topic: Investigation of resonant circuits.

Task 1. This task gives 4 points.

Goal of the task:

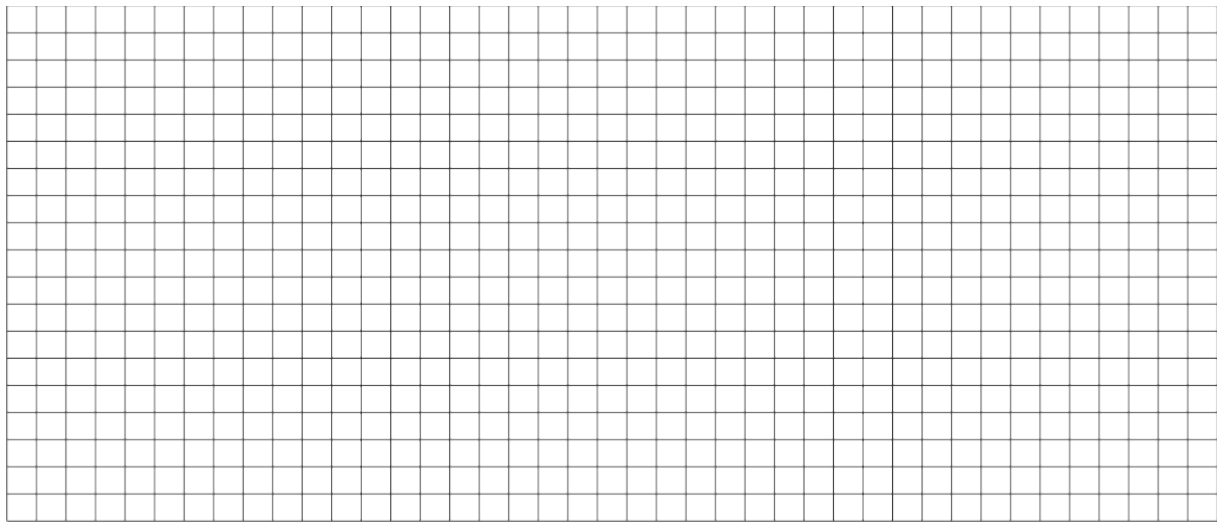
.....

.....

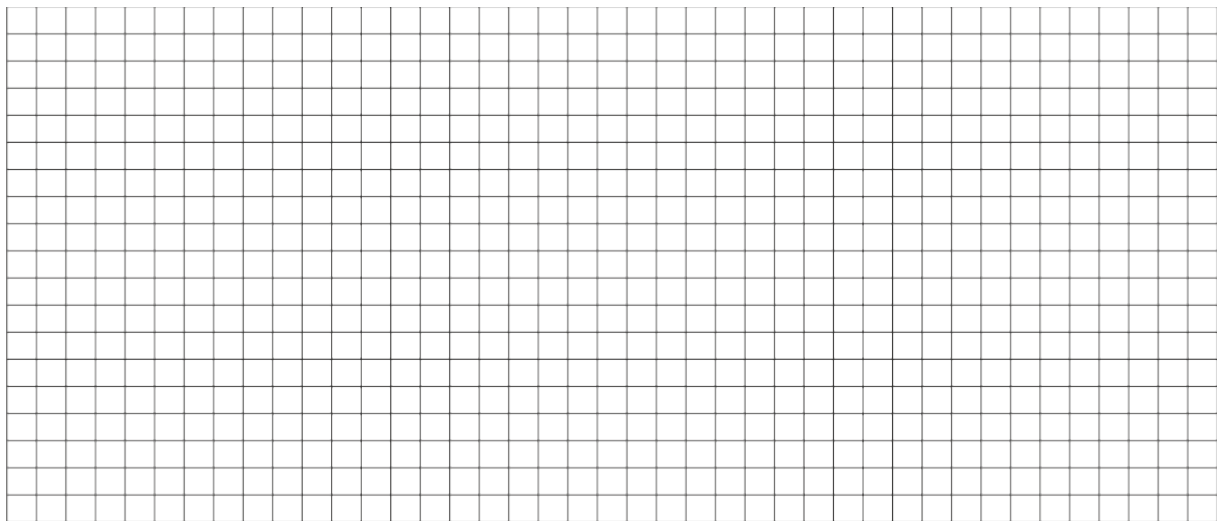
Schematics of the experimental arrangement:

Честота	<i>5 kHz</i>	<i>10 kHz</i>	<i>15 kHz</i>	<i>30 kHz</i>	<i>50 kHz</i>	<i>75 kHz</i>	<i>100 kHz</i>
<i>U_{mR}, V</i>							
<i>I_{mR}, mA</i>							
<i>$t_{\varphi}, \mu S$</i>							
<i>$\varphi, ^{\circ}$</i>							

Graphs (10 points).



$I_{0,5P} = \dots\dots\dots$; $f_{C1} = \dots\dots\dots$; $f_{C2} = \dots\dots\dots$; $BW = \dots\dots\dots$; $Q = \dots\dots\dots$



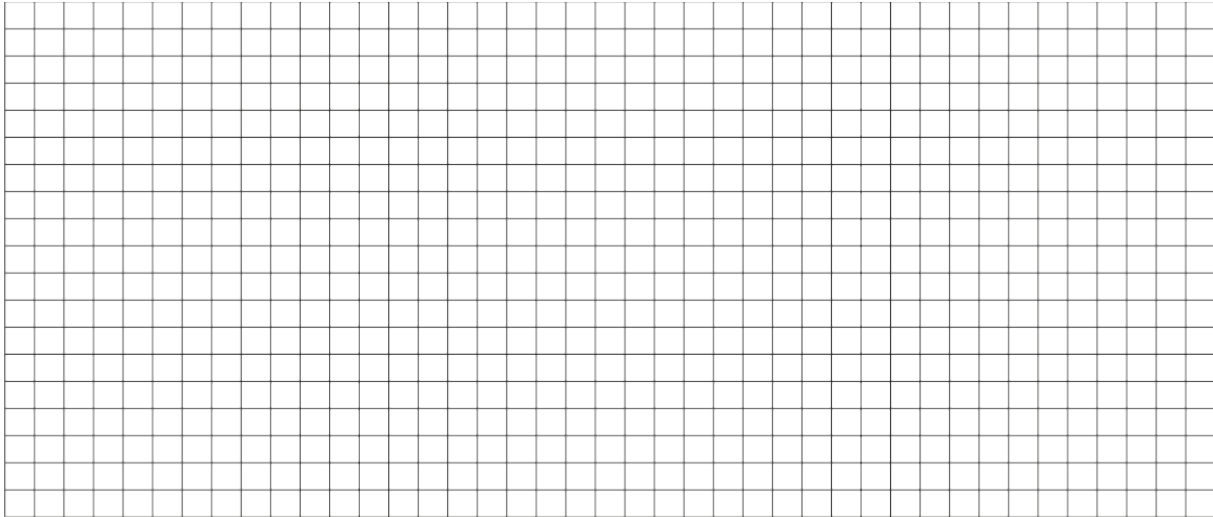
Task 2. This task gives 4 points.

Goal of the task:
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.....

Schematics of the experimental arrangement:

Честота	15 kHz	20 kHz	25 kHz	30 kHz	35 kHz	40 kHz	50 kHz
U_{mR}, V							
I_{mR}, mA							

Graphs (6 points):



$I_{0,5P} = \dots$; $f_{C1} = \dots$; $f_{C2} = \dots$; $BW = \dots$; $Q = \dots$

Conclusions: This task gives 2 points.

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