

Gr:	First name :	
	Last name:	
	N°	

TP N°3 – Cathode Oscilloscope Part 2

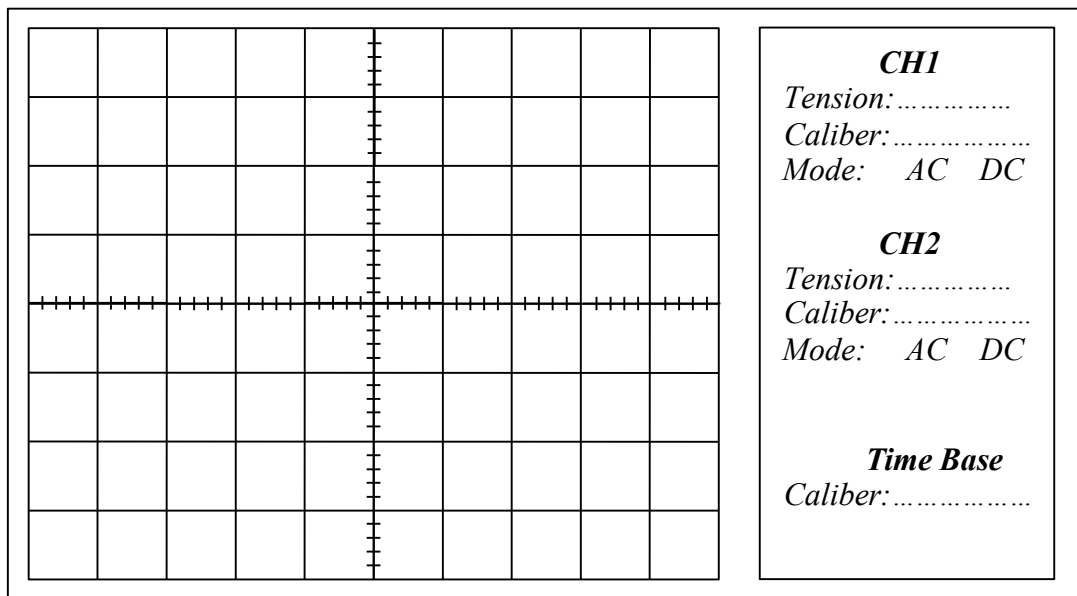
(Phase shift measurement)

I. Assembly diagram



II. Phase Measurement Using the Direct Method

1. Graphs (Signals visualized by the oscilloscope)



2. Procedure for calculating phase shift “ φ ”

$\varphi = ?$
.....
.....

3. Complete the table below:

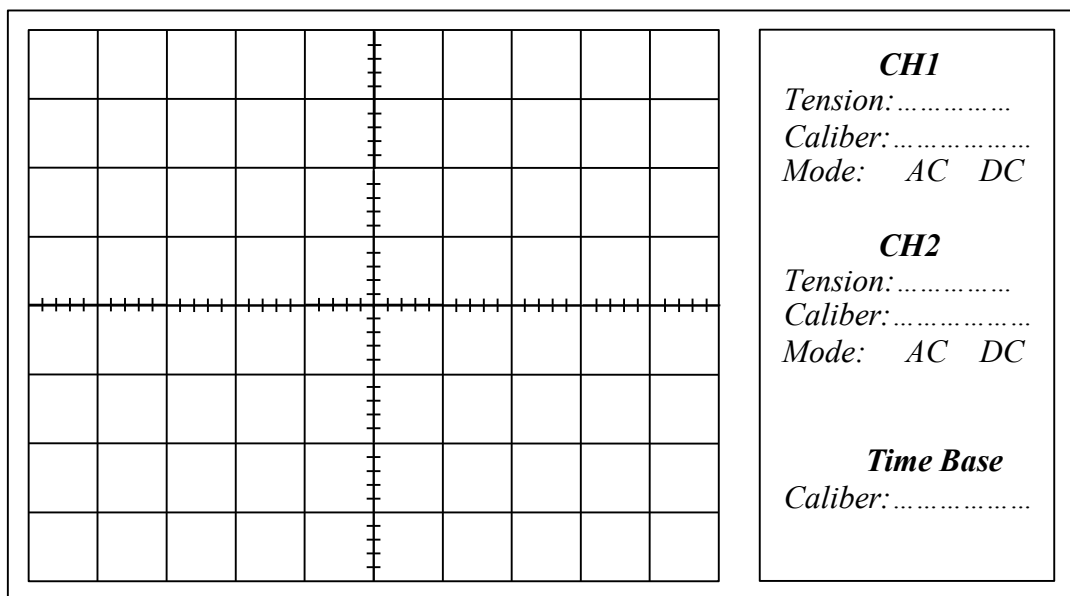
R ()			
T ()			
t ()			
φ ()			

4. Interpretation

.....
.....
.....

III. Lissajous method

1. Graph (Signal visualized by the oscilloscope)



1. Procedure for calculating the phase shift ($^{\circ}$, grad, rad)

$\varphi = ?$
.....
.....

.....

2. Complete the table below

R ()	a ()	b ()	φ (°)	φ (grad)	φ (rad)

3. Comparison between the direct method and the Lissajous method.

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4. What happens to the phase shift if “R” increases indefinitely and “C” decreases indefinitely?

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VI. Conclusion

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