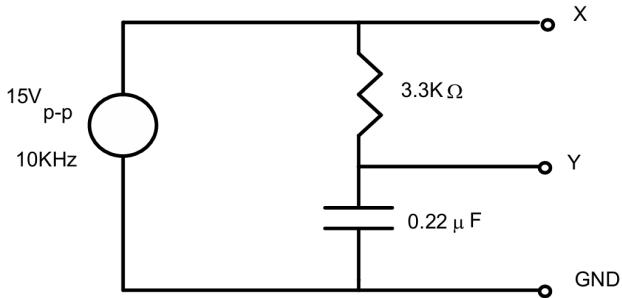


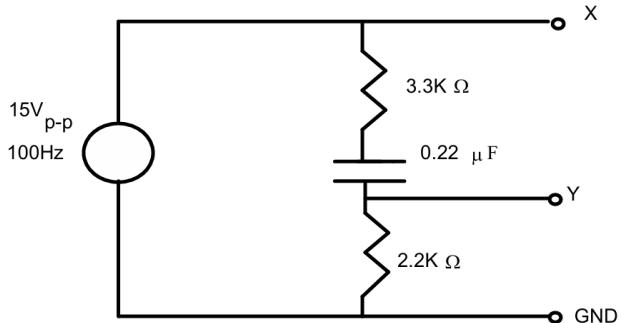
### 3. EXPERIMENTAL WORK

**3.1** Set up the circuit shown in *Fig. 6* and connect the probes to the indicated points. Measure the phase angles between these two signals and draw them.



**Figure 6**

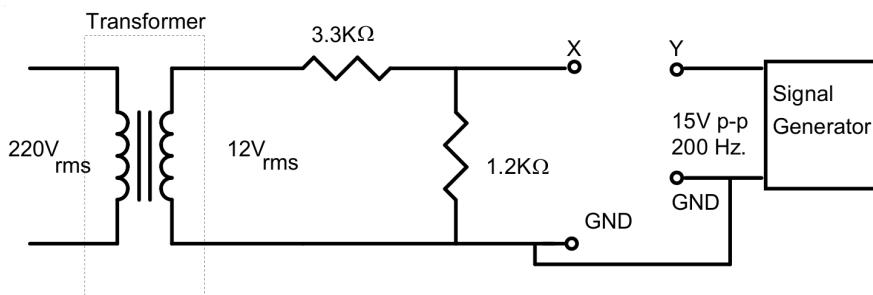
**3.2** Set up the circuit shown in *Fig. 7* and connect the probes to the indicated points. Measure the phase angles between these two signals and draw them.



**Figure 7**

**3.3** Set up the circuit shown below and connect the probes to the indicated points.

- Draw the signals at each channel and the resulting Lissajous pattern.
- Exchange the probe connections and try to obtain the pattern again.



### EQUIPMENT AND COMPONENT LIST

Oscilloscope

Signal Generator

Transformer (220/12)

Resistors (1.2 kΩ x 1, 2.2 kΩ x 1, 3.3 kΩ x 1)

Capacitor (0.22 μF)

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING  
ELE205 CIRCUIT THEORY LABORATORY**

**EXPERIMENT #3**

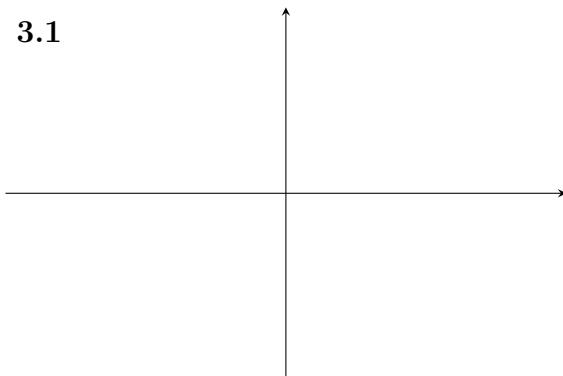
Experiment Date:

Name Surname:

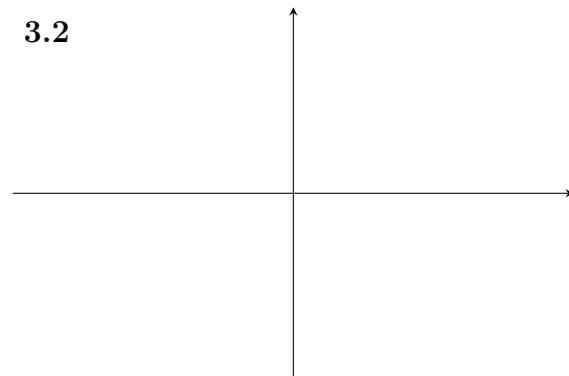
Number:

**RESULTS:**

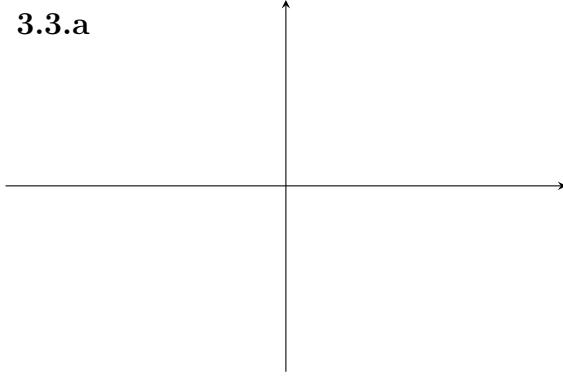
**3.1**



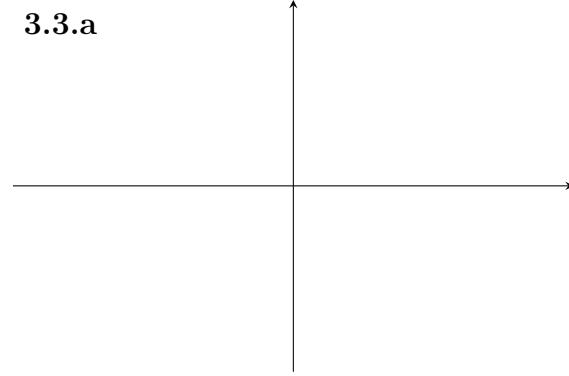
**3.2**



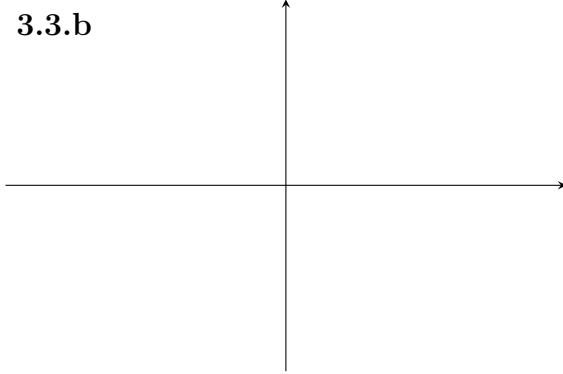
**3.3.a**



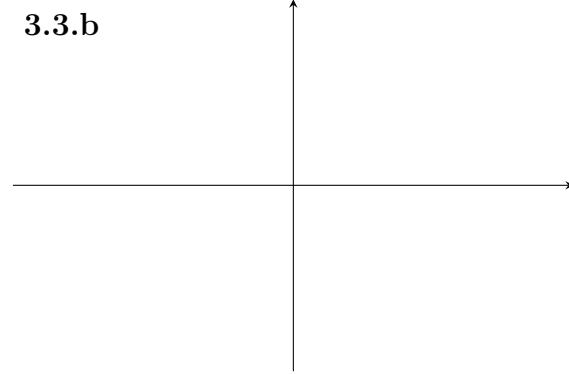
**3.3.a**



**3.3.b**



**3.3.b**



**CONCLUSION:**