

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.

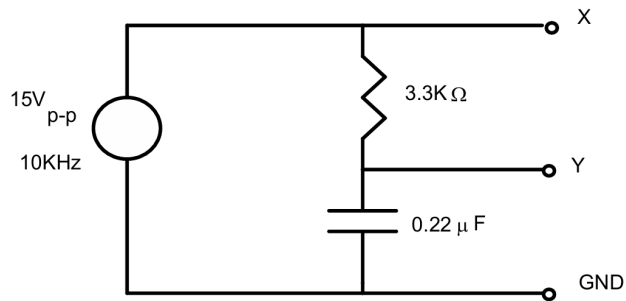


Figure 6

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.

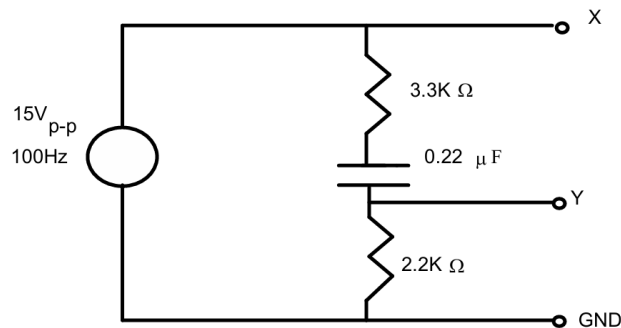
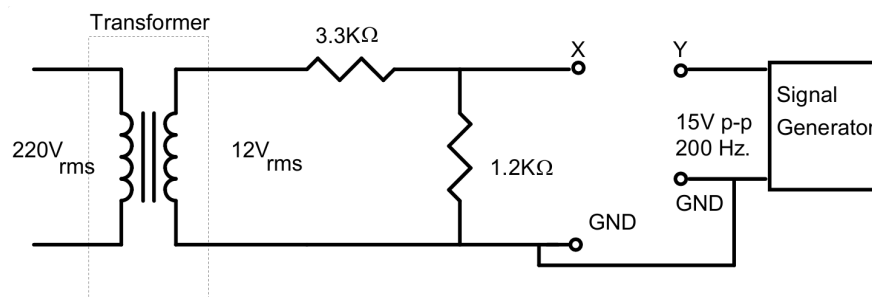


Figure 7

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)

HACETTEPE UNIVERSITY
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
ELE205 CIRCUIT THEORY LABORATORY

EXPERIMENT #3

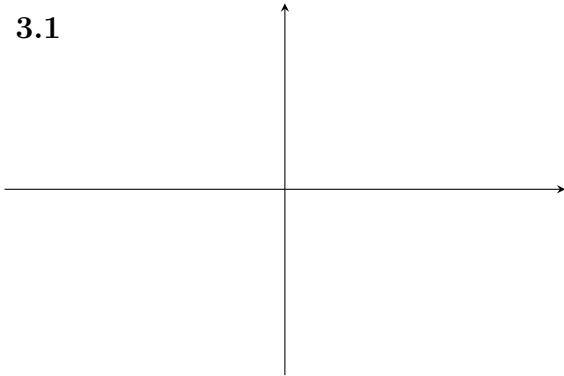
Experiment Date:

Name Surname:

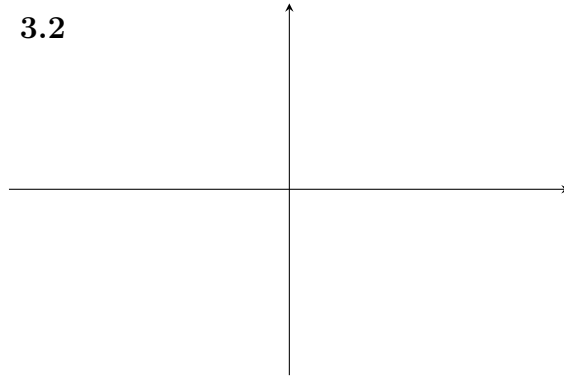
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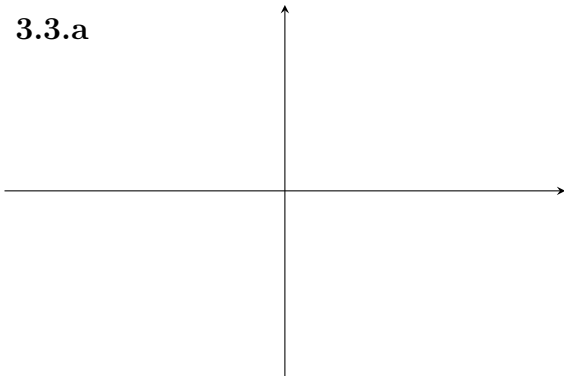
3.1



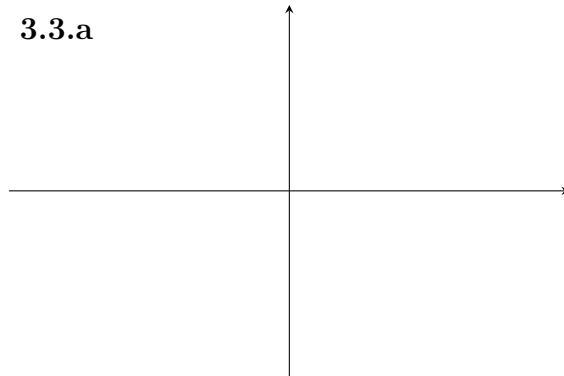
3.2



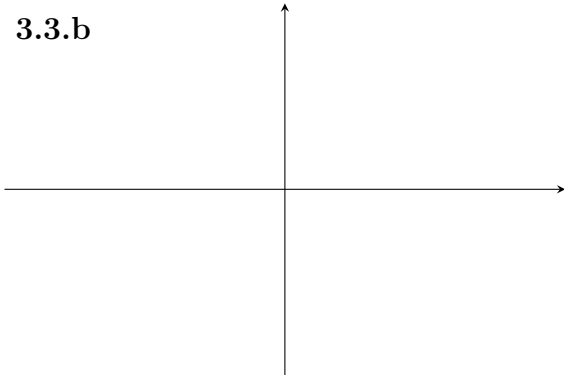
3.3.a



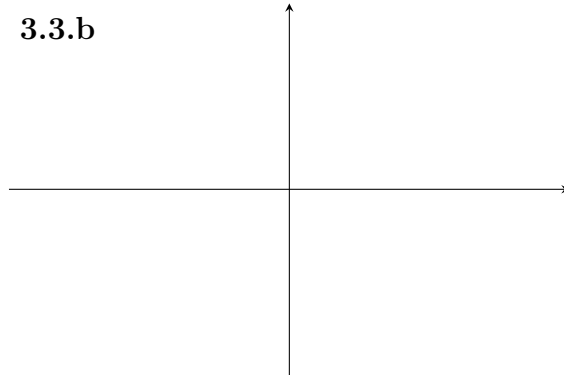
3.3.a



3.3.b



3.3.b



CONCLUSION: