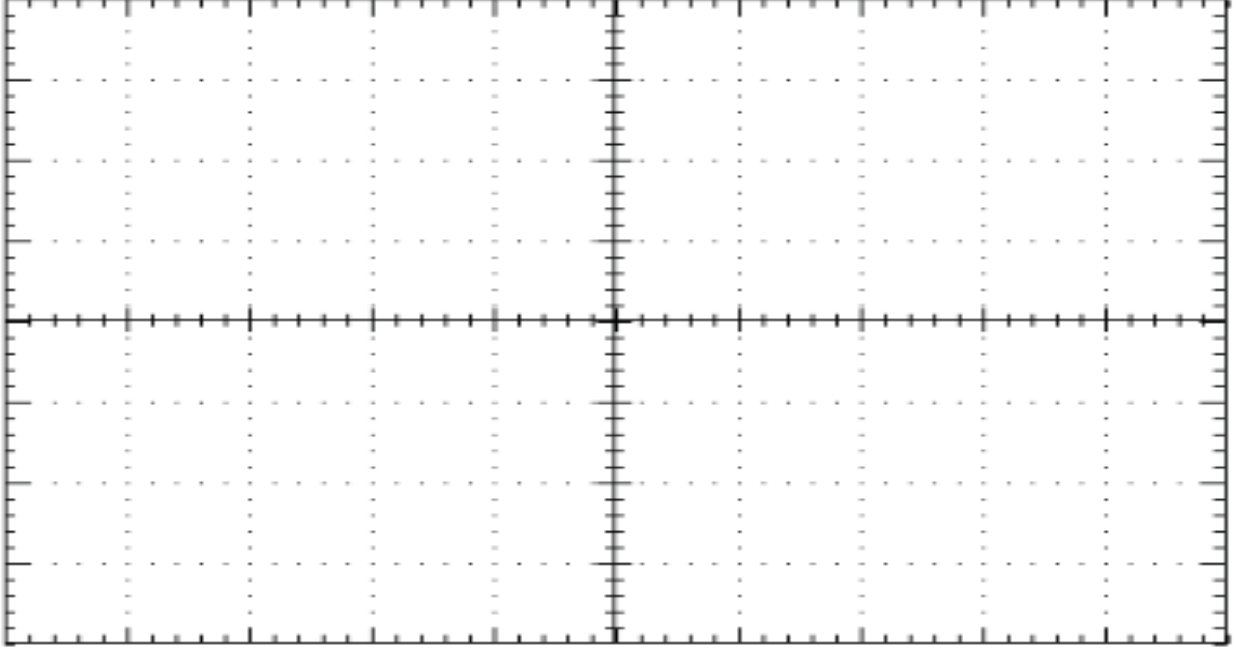


EXPERIMENTAL RESULTS

1. Three Phase AC-DC Converters

1.1. Three Phase Uncontrolled Converter

1.1.1. Three Phase Uncontrolled Half Rectified Converter Experiment (Resistive Load)

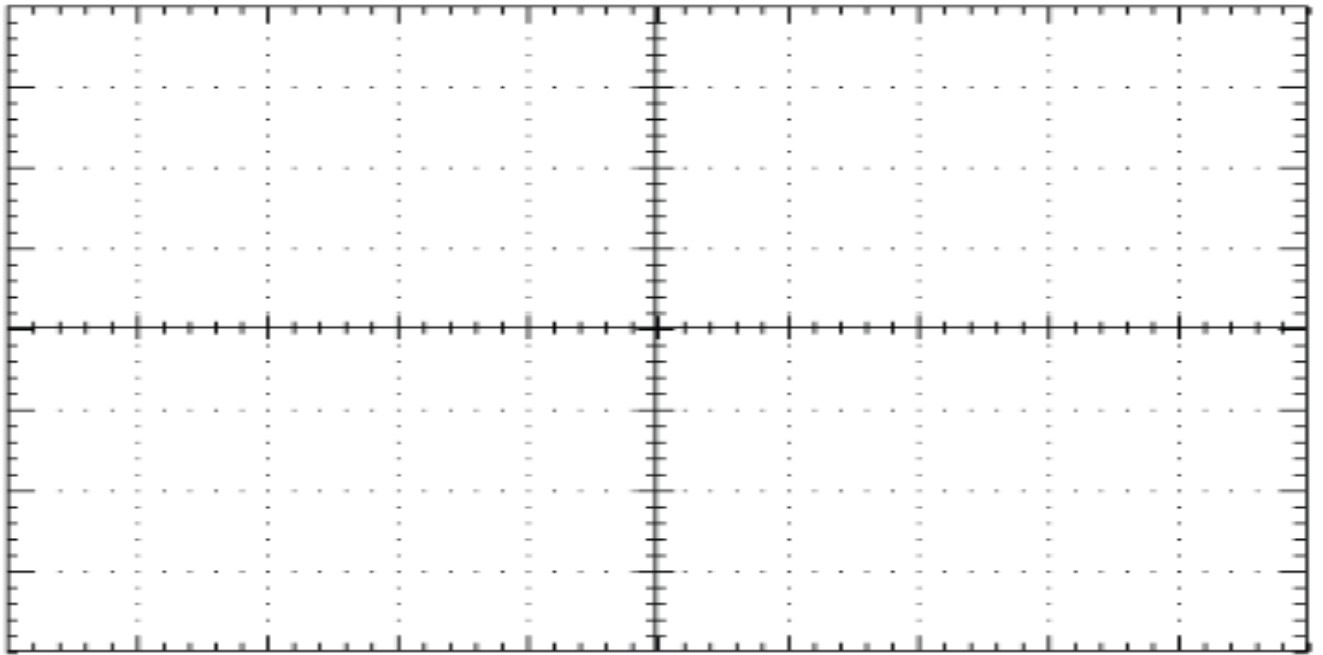


(a) *Ossilloscope Load Voltage Graph*

- Interpret the resulting graph and circuit. Prove the results obtained theoretically.

Table 1. Results Of Three Phase Half Rectified Converter

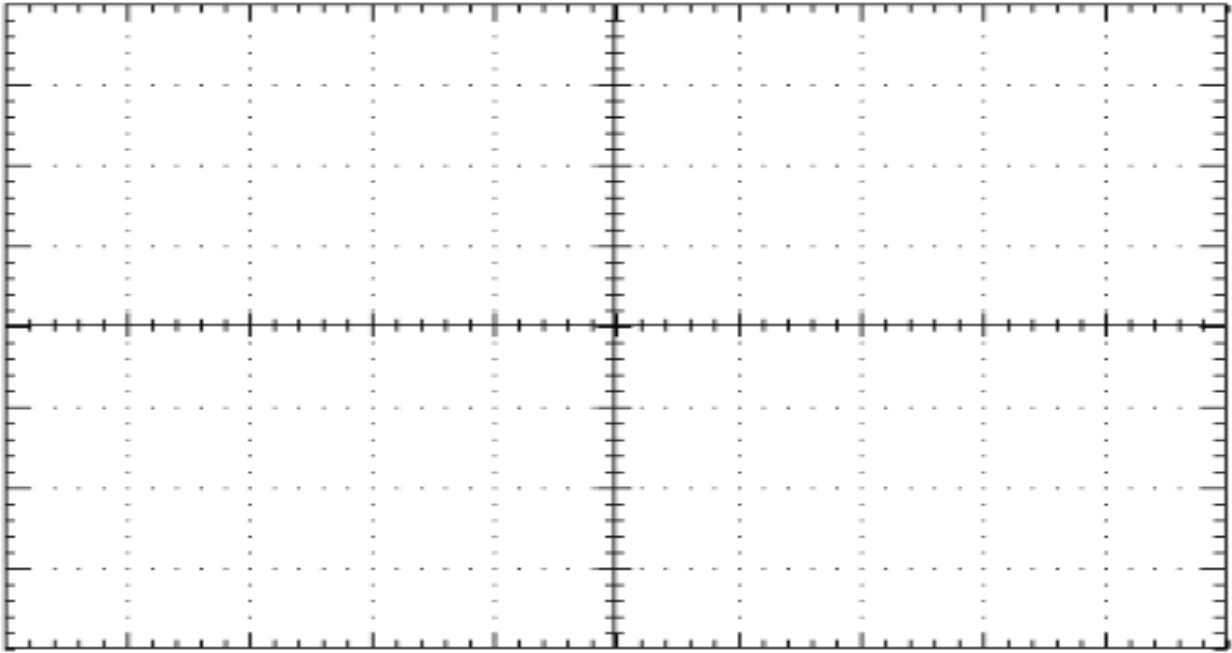
Denklemi buraya yazın.	$I_o(RMS)$	$I_o(Average)$	$V_o(RMS)$	$V_o(Average)$
100 Ohm Load				

1.2.1. Three Phase Uncontrolled Full Rectified Converter Experiment**(b)** *Ossilloscope Load Voltage Graph***Table 2.** Results Of Three Phase Full Rectified Converter

Denklemi buraya yazın.	$I_o(RMS)$	$I_o(Average)$	$V_o(RMS)$	$V_o(Average)$
100 Ohm Load				

- **Interpret the resulting graph and circuit. Prove the results obtained theoretically.**

1.3.1. Three Phase Uncontrolled Half Rectified Converter (Inductive Load)



(c) Ossilloscope Load Voltage Graph

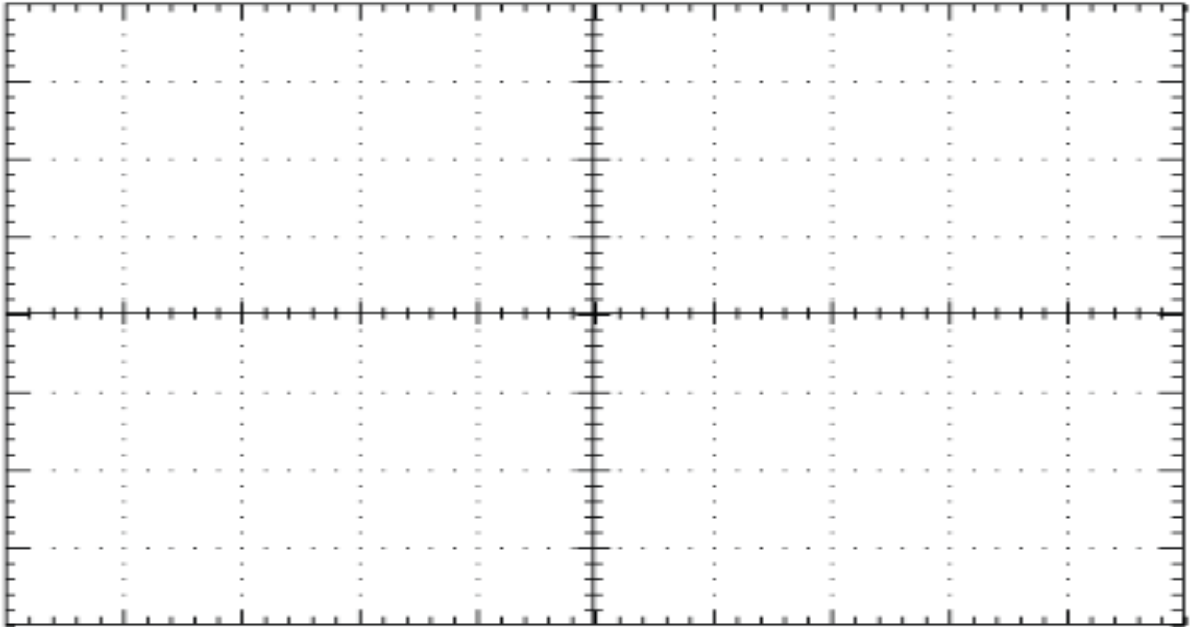
- Interpret the resulting graph and circuit. Prove the results obtained theoretically.

Table 3. Three Phase Half Rectified Converter (Inductive Load)

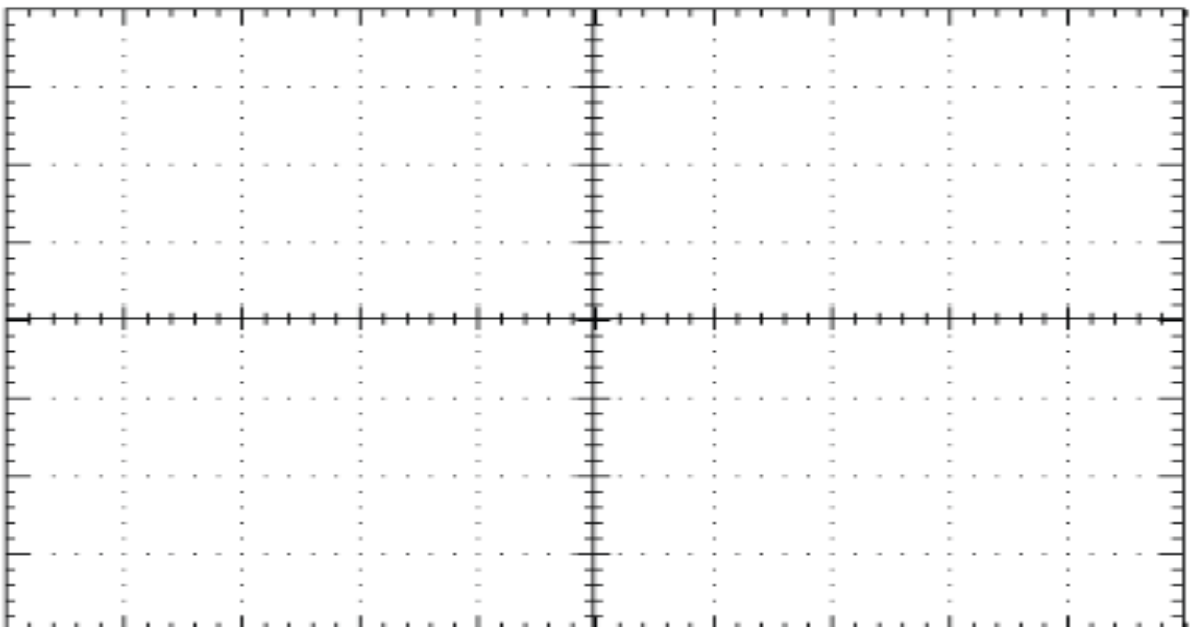
Denklemi buraya yazın.	$I_o(RMS)$	$I_o(Average)$	$V_o(RMS)$	$V_o(Average)$
100 Ohm Load				

1.2. Three Phase Controlled Converter

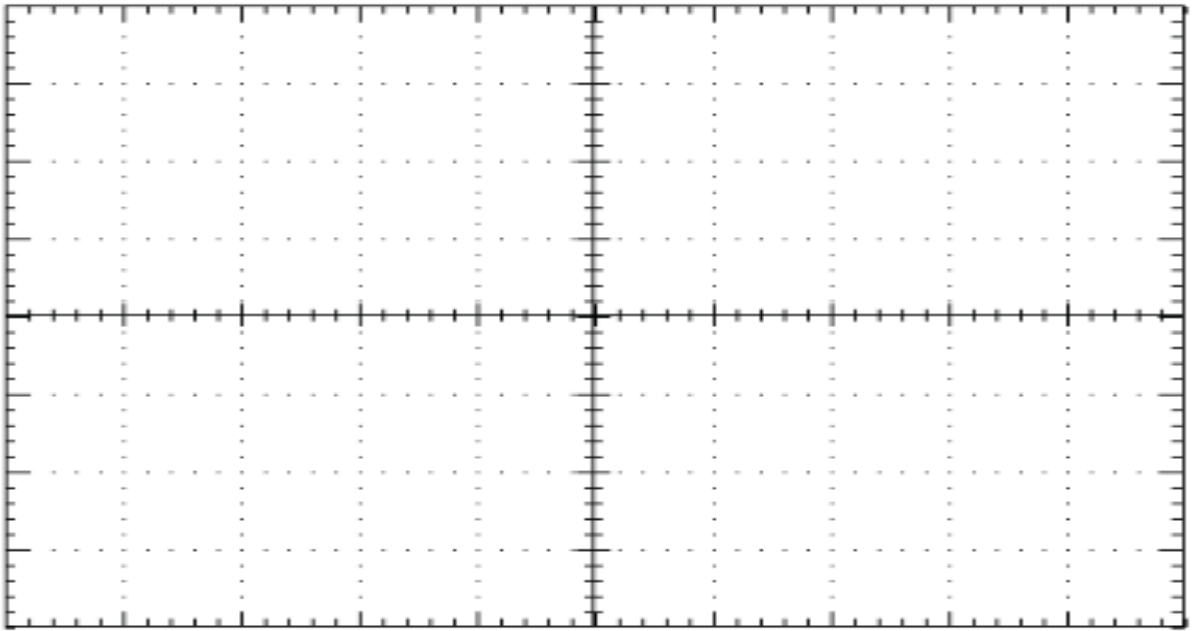
1.2.1. Three Phase Controlled Half Rectified Converter(Resistive Load)



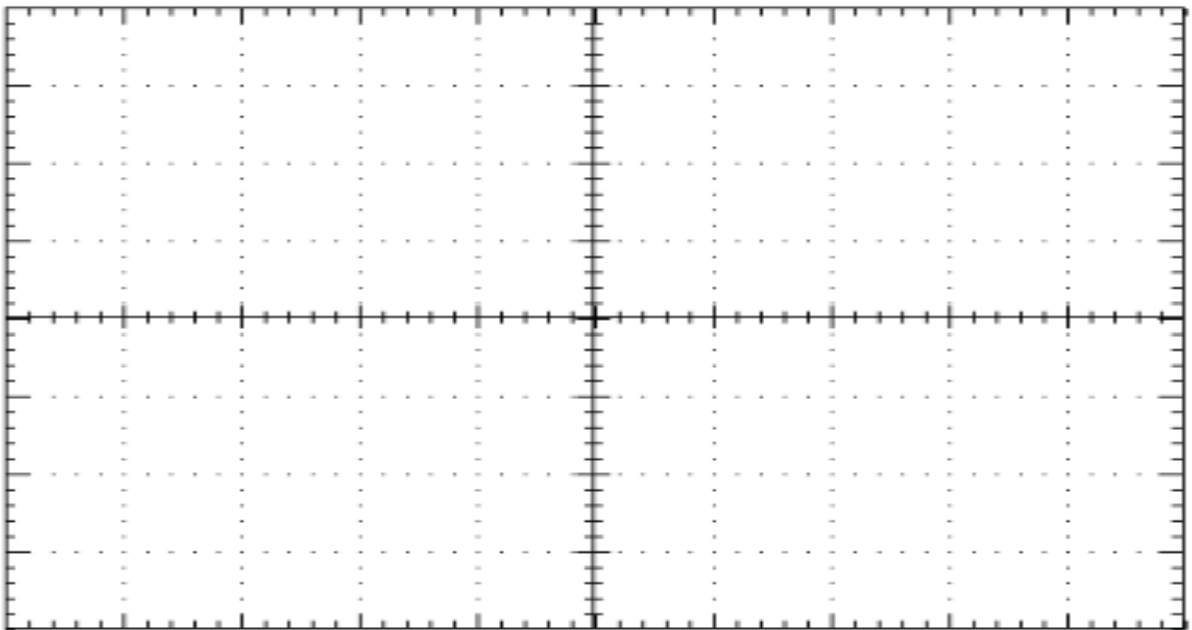
(d) 0° Firing angle Load Voltage



(e) 45° Firing Angle Load Voltage



(f) 90° Firing angle Load Voltage



(g) 135° Firing angle Load Voltage

- Interpret the resulting graph and circuit. Prove the results obtained theoretically.

Table 4. Three Phase Controlled Half Rectified Converter Results

α	$I_o(RMS)$	$I_o(Average)$	$V_o(RMS)$	$V_o(Average)$
0°				
45°				
90°				
135°				