



ALASSO

SINCE 2022

Experiment - 3.2

Student Name: Alasso UID:

Branch: Section/Group-

Semester: Date of Performance:

Subject Name: Subject Code:

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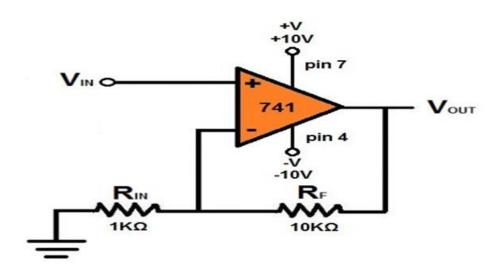
Aim:

To measure gain of non-inverting operational amplifier.

Apparatus:

Op-AMP IC, CRO, Resistor, Multimeter, Function Generator, Bread board, Connect

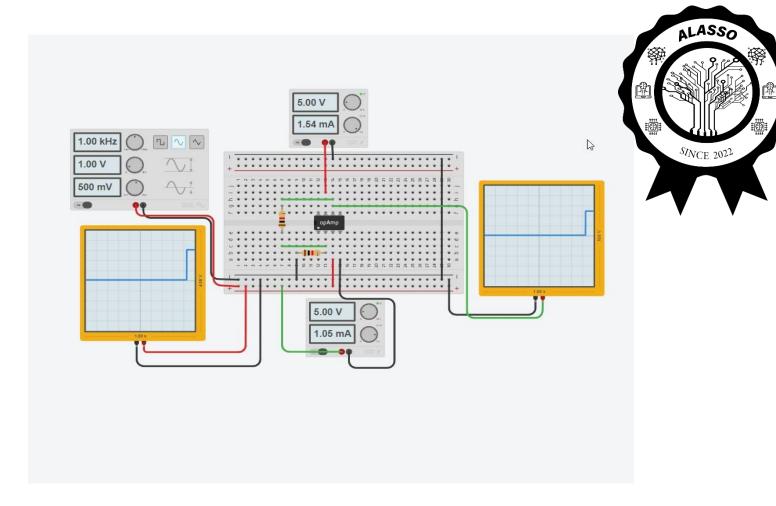
Circuit Diagram:











Steps for experiment:

- 1. Connect the circuit as shown in the figure.
- 2. Connect supply voltage to I/P.
- 3. Note the values of RF & Rin.
- 4. Note VIN & VOUT with the digital multimeter.
- 5. Repeat steps 2 & 3 for different values of RF &Rin.







Calculations/Theorems /Formulas used

Output Voltage VO = VIN (1+RF/Rin) Gain == [Vo/Vin]



Observations/Discussions:

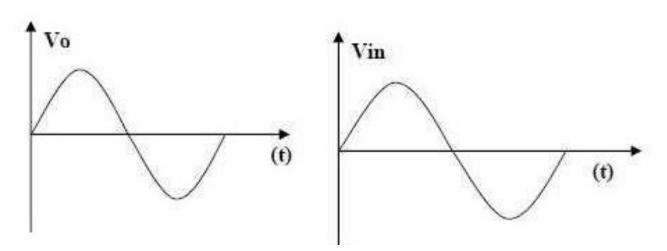
Sr. No.	Rf	Rin	Vin	Vo	Gain[Vo/Vin]
1	500	100	5	30	6
2	200	100	5	15	3
3	300	200	5	12.5	2.5

Percentage error (if any or applicable):

No Error

Result/Output/Writing Summary:

In non-inverting amplifier O/P is in phase with I/P with I/P. The waveforms for non-inverting and amplifier are shown in figure below:







Graphs (If Any):

No Graphs Used

Learning outcomes (What I have learnt):

- 1. Learnt about other workings of Non-Inverting OP Amplifiers.
- 2. Learnt about the need of multimeter to get values of voltages.
- 3. Learnt about checking the results in oscilloscope.
- 4. Learnt about the different functions of types of Operational Amplifiers.



Evaluation Grid:

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.	Worksheet completion including		10
	writinglearning		
	objectives/Outcomes. (To be		
	submitted at the end of the day).		
2.	Post Lab Quiz Result.		5
3.	Student Engagement in		5
	Simulation/Demonstration/Perfor		
	mance and Controls/Pre-Lab		
	Questions.		
	Signature of Faculty (with Date):	Total Marks Obtained:	

