

Experiment 6

Op-Amp
Circuits I

In-Lab Report

Inverting Amplifier

Question 1:

Why is a low input impedance considered a disadvantage?

R_1 (K Ω)/ measured	R_2 (K Ω)/ measured	v_o (In V) (peak-to-peak)	v_o (in degrees) (phase)	Bandwidth
1 /	10 /			
2.2 /	10 /			
4.7 /	10 /			
2.2 /	22 /			
4.7 /	22 /			
10 /	22 /			

Table A-1

Question 4:

Can you find a relationship between low-frequency gain and bandwidth?

Non-Inverting Amplifier

Questions 1&2:

R_1 (K Ω)/ measured	R_2 (K Ω)/ measured	v_o (In V) (peak-to-peak)	v_o (in degrees) (phase)	Bandwidth
1 /	2.2 /			
1 /	4.7 /			
4.7 /	10 /			
2.2 /	10 /			
10 /	22 /			

Table B-1

Unity Gain Non-Inverting Amplifier

Question

1&2:

frequency f_0	
Bandwidth	

Question 3:

How does this bandwidth compare with that of the non-inverting amplifier?