

Inverting Operational Amplifier

Student Group

First Name	Surname	Matrikel Nr.

Table of Contents

Inverting Operational Amplifier 2
Gain of Op-Amp 2
Investigation of inverting input 2

Inverting Operational Amplifier

Gain of Op-Amp

Build the following circuit in [figure 1](#) with the power supply and a multimeter.



Fig. 1: Inverting Op-Amp

$U_{DD} \approx 10\text{ V}$, $U_{SS} \approx -10\text{ V}$, $R_1 \approx 10\text{ k}\Omega$

Calculate the necessary value for R_2 , so that the Output U_{OUT} is 5 V. Use the supply voltage of the operational amplifier for U_{IN} .

$R_1 \approx$

$U_{IN} \approx$

Investigation of inverting input



Fig. 2: Inverting Op-Amp investigate inverting input

$U_{DD} = 10\text{V}$, $U_{SS} = -10\text{V}$, $R_1 = 10\text{k}\Omega$

- Virt masse messen
- r2 kurzschluss

From:
<https://wiki.mexle.org/> - **MEXLE Wiki**

Permanent link:
https://wiki.mexle.org/lab05_en/inverting_op-amp_basics_amplification?rev=1775029090

Last update: **2026/04/01 09:38**

