

# Inverting Operational Amplifier

## Student Group

First Name	Surname	Matrikel Nr.

## Table of Contents

Inverting Operational Amplifier ..... 2  
Gain of Op-Amp ..... 2  
Investigation o 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

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

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  $U_{IN}$ .

$R_1 =$

### Investigation o inverting input

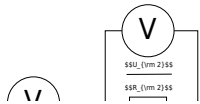


Fig. 2: Inverting Op-Amp investigate inverting input

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

- Virt masse messen
- r2 kurzschluss

From:  
<https://mexle.te.hs-heilbronn.de/> - MEXLE Wiki

Permanent link:  
[https://mexle.te.hs-heilbronn.de/lab05\\_en/inverting\\_op-amp\\_basics\\_amplification?rev=1775028770](https://mexle.te.hs-heilbronn.de/lab05_en/inverting_op-amp_basics_amplification?rev=1775028770)

Last update: **2026/04/01 09:32**

