

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 3

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} .

$U_{IN} =$

R_2

Investigation of inverting input



Fig. 2: Inverting Op-Amp: Investigate inverting input

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

For U_{IN}, U_{OUT}, R_2 use the values from figure 1.

- 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=1775055418

Last update: 2026/04/01 16:56

