

Inverting Operational Amplifier

Student Group

| First Name | Surname | Matrikel Nr. |
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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} .

$$U_{IN} = ?$$

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.

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