

Inverting Operational Amplifier

Student Group

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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

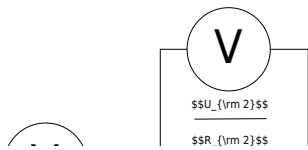


Fig. 2: Inverting Op-Amp: Investigate inverting input

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

For U_{IN} , U_{OUT} , R_2 use the values from [figure 2](#).

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