

# 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

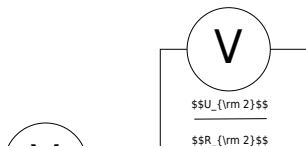


Fig. 2: Inverting Op-Amp: Investigate inverting input

$U_{DD} = 10V, U_{IN} = -10V, R_1 = 10k\Omega$   
 $U_{IN}, U_{OUT}, R_2$  use the values from [figure 2](#).

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