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.

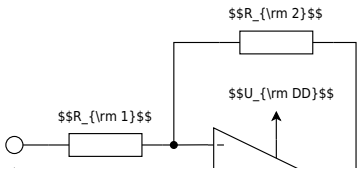

Fig. 1: Inverting Op-Amp

$U_{\rm DD}{\rm~=~10~V},~U_{\rm SS}{\rm~=~-10~V},~R_{\rm 1}{\rm~=~10~k\Omega}$

Calculate the necessary value for $R_{\rm 2}$, so that the Output $U_{\rm OUT}$ is 5 V. Use the supply voltage of the operational amplifier for $U_{\rm IN}$.

$U_{\rm IN}{\rm~=}$

$R_{\rm 2}{\rm~=}$

Investigation of inverting input

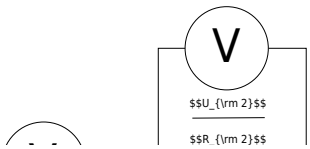

Fig. 2: Inverting Op-Amp: Investigate inverting input

$U_{\rm DD}{\rm~=10~V},~U_{\rm SS}{\rm~=-10~V},~R_{\rm 1}{\rm~=10~k\Omega}$

For $U_{\rm IN},~U_{\rm OUT}~R_{\rm 2}$ use the values from figure 2.

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