

# Golden Rules

## Student Group

First Name	Surname	Matrikel Nr.

## Table of Contents

Golden Rules ..... 2  
Op-Amp zero adjustment without feedback ..... 2

## Golden Rules

Explain the Golden Rules of the operational amplifier.

- \$\_{rm .....}\$
- \$\_{rm .....}\$
- \$\_{rm .....}\$
- \$\_{rm .....}\$
- \$\_{rm .....}\$
- \$\_{rm .....}\$
- \$\_{rm .....}\$
- \$\_{rm .....}\$
- \$\_{rm .....}\$
- \$\_{rm .....}\$

### Op-Amp zero adjustment without feedback

Build the following circuit in [figure 1](#) with the power supply and a multimeter.



Fig. 1: Zero adjustment

$$U_{DD} = 10V, U_{SS} = -10V, R_1 = 10k\Omega, R_2 = 10k\Omega$$

Adjust the output of the Op-Amp to zero. Describe your results and explain them.

- {}\$
- {}\$
- {}\$
- {}\$
- {}\$
- {}\$
- {}\$
- {}\$
- {}\$

$\{\text{rm .....}\}$

How can the circuit be improved? Draw an improved version and explain it.

$\{\text{rm .....}\}$

$\{\text{rm .....}\}$

$\{\text{rm .....}\}$

$\{\text{rm .....}\}$

$\{\text{rm .....}\}$

$\{\text{rm .....}\}$

$\{\text{rm .....}\}$

$\{\text{rm .....}\}$

$\{\text{rm .....}\}$

$\{\rm \dots\dots\dots\}$

From:  
<https://first.mexle.te.hs-heilbronn.de/> - **MEXLE Wiki**

Permanent link:  
[https://first.mexle.te.hs-heilbronn.de/lab05\\_en/op-amp\\_basics?rev=1777290187](https://first.mexle.te.hs-heilbronn.de/lab05_en/op-amp_basics?rev=1777290187)

Last update: **2026/04/27 13:43**

