

# Golden Rules

## Student Group

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## Table of Contents

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

## Golden Rules

Explain the Golden Rules of the operational amplifier.

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### Op-Amp zero adjustment without feedback

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

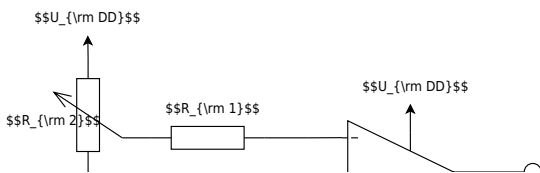


Fig. 1: Zero adjustment

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

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

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

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