

Photodiode as current source

Student Group

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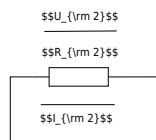


Fig. 4: Inverting Op-Amp: Photo Diode as current source

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

Use the values from figure ## for U_{IN}, U_{OUT}, R_2 .

Complete the arrows in the scematic of the circuit.

Take the values for U_1, U_2, U_{OUT} from figure ##.

Use these values to calculate the sum of the voltages at node N_{12} .

Compare your result by measuerement.

$$U_1 =$$

$$U_2 =$$

$$U_{OUT} =$$

$$\text{Calculated } U_{N_{12}} =$$

Measured U_{12}

What are your results?

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What will happen if you short-circuit R_2 ?
Try it and explain your results.

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