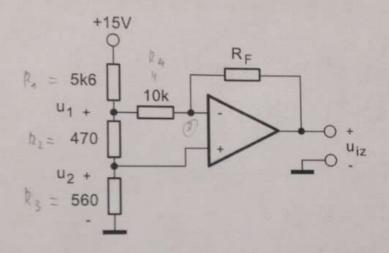
veze operacijsko pojačalo koristi se kao komparator.

Svrha vježbe je upoznavanje s integriranim operacijskim pojačalom, te njegove primjene u realizaciji invertirajućeg i neinvertirajućeg pojačala.

PRIPREMA

- Proučiti poglavlje 10. iz skripte Elektronika 1, II dio, te proraditi zadatke koji se odnose na operacijska pojačala.
- Za sklop na slici 1. odrediti U_{IZ}, U_I i U₂ uz R_F = 10 kΩ i uz R_F = 100 kΩ. Napisati opći izraz za U_{IZ} kao funkciju U_I i U₂, te dobivene brojčane rezultate upisati u tablicu 1.



Slika 1. Sklop s operacijskim pojačalom

Prostor za rješavanje:

$$0 = \frac{U_{2} \cdot U_{CL}}{V_{2}} + \frac{U_{3} - U_{2}}{v_{2}} + \frac{U_{3} - U_{2}}{v_{2}} \\
0 = \frac{U_{2}}{u_{3}} + \frac{U_{3} - U_{4}}{v_{2}} \\
0 = \frac{U_{2}}{u_{3}} + \frac{U_{3} - U_{4}}{v_{2}} \\
0 = \frac{U_{3} - U_{4}}{v_{4}} + \frac{U_{3} - U_{5}}{v_{4}} \\
0 = \frac{U_{3} - U_{4}}{v_{4}} + \frac{U_{3} - U_{5}}{v_{4}} \\
0 = \frac{U_{4} - U_{5}}{v_{4}} + \frac{U_{5} - U_{5}}{v_{4}} \\
0 = \frac{U_{5} - U_{5}}{v_{4}} + \frac{U_{5} - U_{5}}{v_{5}} \\
0 = \frac{U_{5} - U_{5}}{v_{5}} + \frac{U_{5}}{v_{5}} - \frac{U_{5}}{v_{5}} \\
0 = \frac{U_{5} - U_{5}}{v_{5}} + \frac{U_{5}}{v_{5}} - \frac{U_{5}}{v_{5}} \\
0 = \frac{U_{5} - U_{5}}{v_{5}} + \frac{U_{5} - U_{5}}{v_{5}} \\
0 = \frac{U_{5} - U_{5}}{v_{5}} + \frac{U_{5} - U_{5}}{v_{5}} \\
0 = \frac{U_{5} - U_{5}}{v_{5}} + \frac{U_{5} - U_{5}}{v_{5}} + \frac{U_{5} - U_{5}}{v_{5}} \\
0 = \frac{U_{5} - U_{5}}{v_{5}} + \frac{U_{5} - U_{5}}{v_{5}} + \frac{U_{5} - U_{5}}{v_{5}} + \frac{U_{5} - U_{5}}{v_{5}} \\
0 = \frac{U_{5} - U_{5}}{v_{5}} + \frac{U_{5} - U_{5}}{v_{5}} + \frac{U_{5} - U_{5}}{v_{5}} + \frac{U_{5} - U_{5}}{v_{5}} + \frac{U_{5} - U_{5}}{v_{5}} \\
0 = \frac{U_{5} - U_{5}}{v_{5}} + \frac{U_{5} - U_{5}}{v_{5}} \\
0 = \frac{U_{5} - U_{5}}{v_{5}} + \frac{U_{5} - U_{5}}{v_{5}}$$

A) R= 106 VZ

Tablica 1. Rezultati

	$R_F = 10 \text{ k}\Omega$	$R_F = 100 \text{ k}\Omega$
U_1	2.24 V	2,241V
U_2	1.21EV	1.2870
UIZ	0,196V	-9.00450