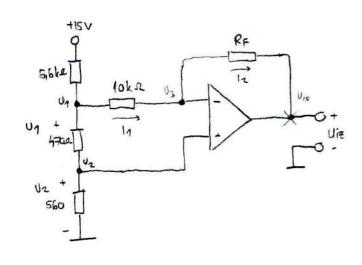
6. LABORATORUSKA VJEŽBA

OPERACIJSKO POJAČALO PRIPREMA



$$|_{1} = \frac{U_{1} - U_{-}}{10k}$$

$$|_{2} = \frac{U_{-} - U_{12}}{R_{F}}$$

$$|A = |Z|$$

$$R = \frac{U_1 - U_2}{10k} = \frac{U_2 - U_1 Z_2}{|R|}$$

$$V_1 = U_2 - R_F \cdot \frac{U_1 - U_2}{10k}$$

$$V_2 = U_2 - R_F \cdot \frac{U_1 - U_2}{10k}$$

$$(2) \ U_2 \left(\frac{1}{560} + \frac{1}{470} \right) - U_1 \cdot \frac{1}{470} = 0$$

(3)
$$V_3 \left(\frac{1}{10k} + \frac{1}{R_F} \right) - V_1 \frac{1}{10k} = V_{12} \cdot \frac{1}{R_F}$$

$$(1) 214 \cdot 10^{3} U_{1} - 21678 \cdot 10^{3} - \frac{Uz}{10 \cdot 10^{3}} - \frac{Uz}{470} = 0$$

(2)
$$3,913 \cdot 10^{3} U_{2} - \frac{U_{1}}{470} = 0$$
 - $\frac{U_{1} = 1,839 U_{2}}{470}$

$$z_1 4 \cdot 10^3 U_1 - 2_1 z z 76 \cdot 10^3 U_2 = 2_1 6 78 \cdot 10^3$$

$$z_1 186 \cdot 10^3 U_2 = z_1 6 78 \cdot 10^3$$

$$U_z = 1,22 \text{ V}$$
 $U_1 = 2,25 \text{ V}$

(3)
$$R_F = 10.10^3 \Omega$$

 $2.10^4 U_2 - 1.10^4 U_1 = 1.10^4 U_1^2$
 $2U_2 - U_1 - U_1^2 \rightarrow U_2^2 = 0.19 V$

$$R_{F} = 100 \text{ k} \cdot \Omega$$

$$1.1 \cdot 10^{7} \text{ U}_{2} - 1 \cdot 10^{7} \text{ U}_{1} = 1 \cdot 10^{5} \text{ Uiz}$$

$$11 \text{ Uz} - 10 \text{ U}_{1} = \text{ Uiz}$$

$$\text{Uiz} = -9.08 \text{ V}$$