

Modiarpadis: ripolos 100 Riy = 140

xueis va xeneileonoinem R > 1M2 $i_1 = \frac{v_I}{R_1} \qquad (v_1 = 0)$

 $v_{x} = v_{1} - i_{2}R_{2} = -\frac{R_{2}}{Q_{1}}v_{\overline{1}}$ $Li_{1} = i_{2}$

i3 = -vx = R2 VI R,R3 i4 = i2 + i3 (NPK 6200 xobbo x)

$$\frac{V_0}{V_T} = \frac{V_T}{R_1} + \frac{R_2}{R_1} \frac{V_T}{R_3}$$

$$\frac{V_0}{V_T} = -\frac{R_2}{R_1} \left(1 + \frac{R_4}{R_2} + \frac{R_4}{R_3} \right)$$

$$Rin = R_1 \rightarrow cniJigw R_1 = 140$$
 $Mnopi va cniJigw R_2 = R_4 = 140$

onote
$$y_1 = \frac{v_0}{v_1} = 100$$
 neowinter $R_3 = 10.2 \text{ ho}$

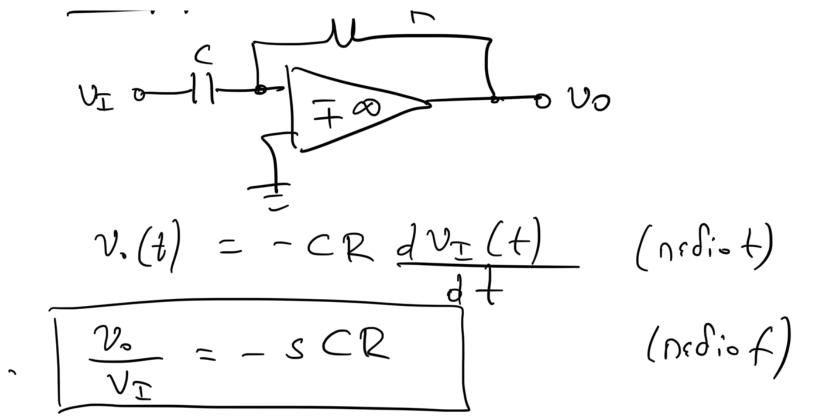
$$v_{\rm I} = -\frac{Z_2}{V_{\rm I}}$$

$$v_{\rm I} = -\frac{Z_2}{Z_{\rm I}}$$

$$\frac{A}{Z_{1}} = \frac{1}{SC}$$

$$\frac{1}{2} \frac{v_0}{v_T} = -\frac{1}{SCR}$$

O Lowlyeuths Miller McSio xeovos • ν_»(+) = VI (+) $v. (t) = R \sqrt{c} - \frac{1}{c} \int_{A}^{t} (t') dt'$ aexium 6000 di un : Tuxóv poption Tou C zu xeovium Grijfini D vIlt) 4t' Ttolio 6UXVOTUTA) XJOUTILLY avrideach Enajorinh avridpace TTapajw jiby 0



S -> Telcerus Tapajuijiens 620 Nelio Tus 60xvotutas

Viologiation tus auvalentes fictadopais 670 Telio tus auxvorturas naturalelan VIIII VIII TO Volt

$$\frac{v_{\circ}A = -iR}{\frac{v_{\circ}A}{v_{\mp}} = -sCR}$$

Adpoint the Bapy

Vy on Ry

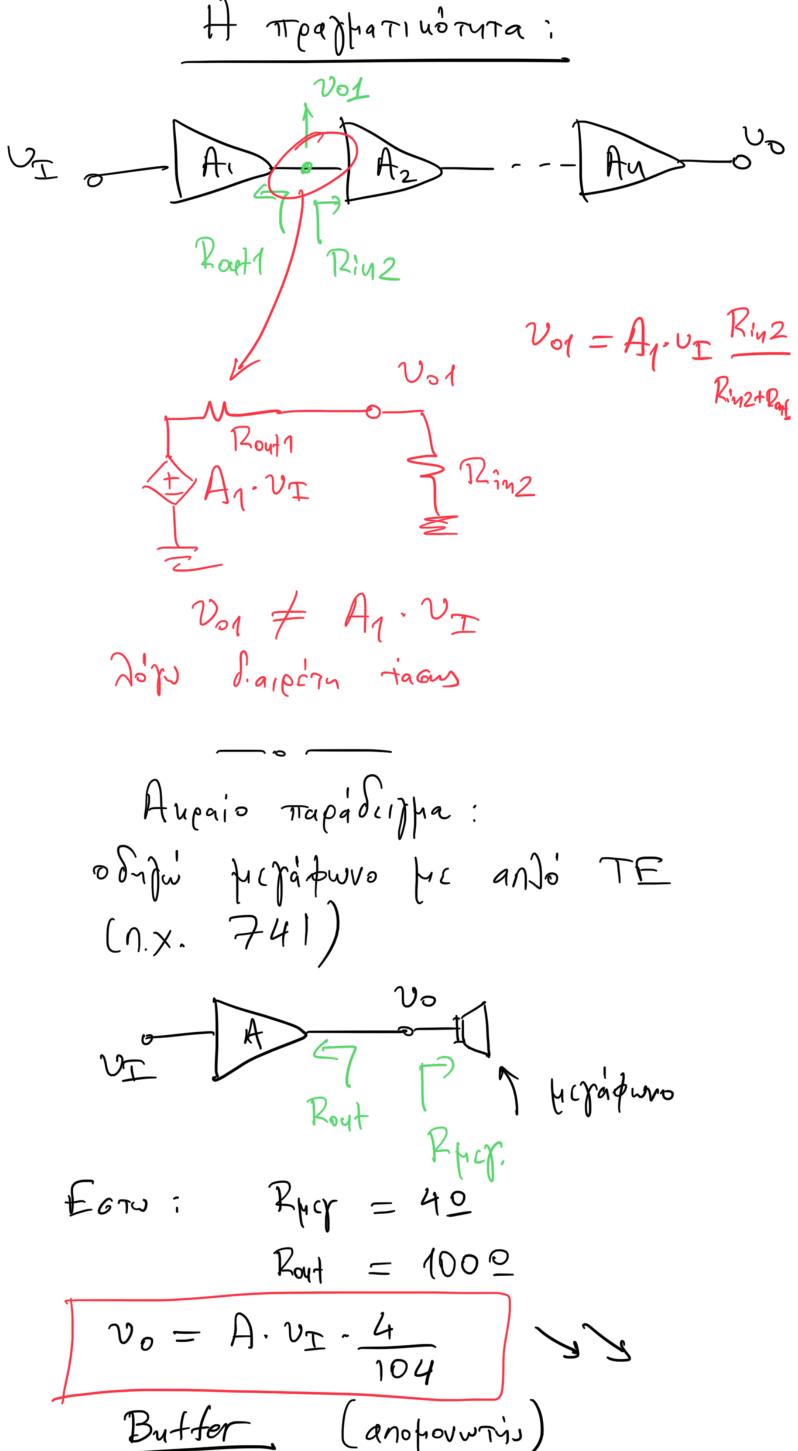
Vy on Ry

The Ry

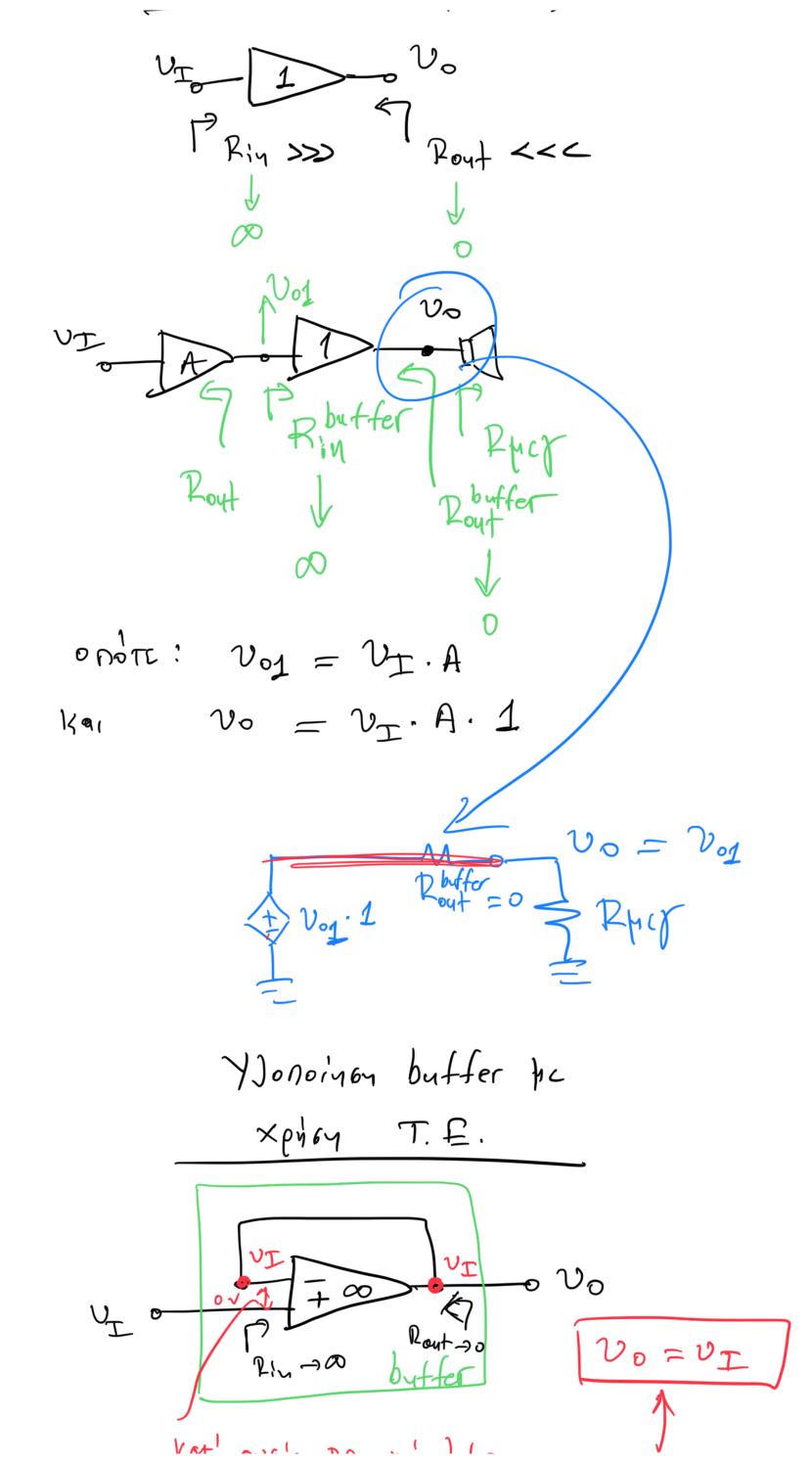
- (a) To Kirlufa Civai pappino
- (B) Apa chaphoju un apxis un unipolicins

(1)
$$v_1 \neq 0$$
, $v_i = 0$ i=(2,...n)

Marloucia gy onate OV oMa OV (uar ovoign) V1=0 y V;=0 (i = (3, ... N)) $v_{y} \neq 0$ $v_{0y} = -\frac{R_{f}}{R_{n}}v_{n}$ E dappilu voied can: $V_o = -\left(\frac{Rf}{D}v_1 + \frac{Rf}{R}v_2 + \frac{Rf}{R}v_n\right)$ Alles edappores TE UT 0 A2 --- An 000 $v_0 = (A_1 \cdot A_2 \cdot ... A_n) v_{\perp}$ aprovra) av11679 6(1) (160 60)/c306) (onl. Rin - o, Rout - o)



Rinz+Ray



ore overa praximina

Je 1 Toupfila Buffer

My avagrecon coloxords $V_0 = \frac{V_T}{R_1} R_2 + V_T = 0$ $\frac{V_0}{V_T} = \frac{1 + R_2}{R_1}$

Riy Tou avaitpidortos cuióxutý Tauti (crai lyc the Riy Tou T.E. apa $Riy \to \infty$

A

A

FL

FH

To pilipo apiner va Trepa 600V

Gypata 674 July [FL, FH]

B

Ta hoper onouly note allow

Zwoonceard dilipso bandpass filter-BP

A

A

f

Tyiniparo dil noo

highpass filter - HP

f < f

uo perai

f > f

niprica

Theappatino σ.x. βαδηκρατο φίντρο

A Coprorai

ano ropadho

Tou

pidrou