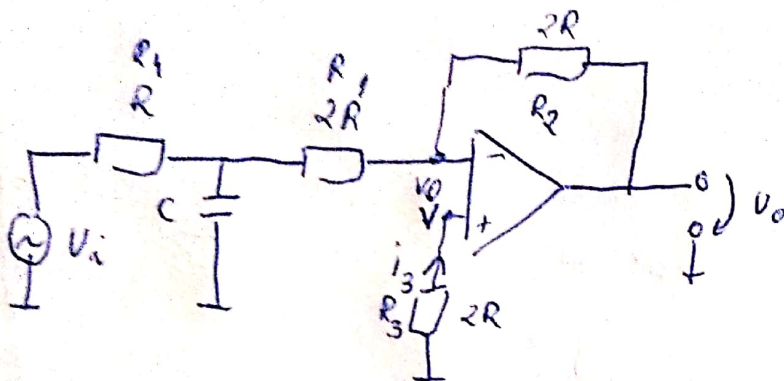
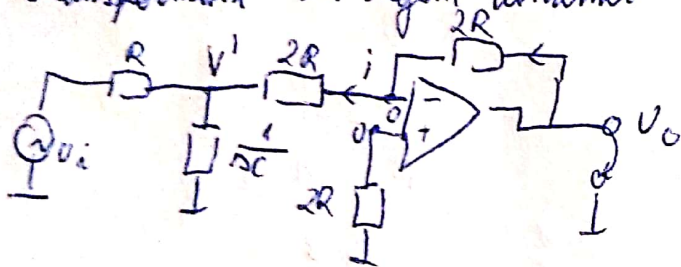


(11)  $A_v$  are reactii negative deci  $V_+ = V_-$



$$i_3 = 0 \Rightarrow V = 0$$

Transformăm în regim dinamic



$$V_o \approx i \cdot 2R$$

$$V' - 0 = i \cdot 2R$$

$$V' = u_i \cdot \frac{\frac{1}{sC}}{R + \frac{1}{sC}}$$

(Este un filtru trece jos amplificat)

$$\hookrightarrow V_o(s) = i \cdot 2R$$

$$V_i(s) \cdot \frac{\frac{1}{sC}}{R + \frac{1}{sC}} = i \cdot 2R \Rightarrow V_o(s) = V_i(s) \cdot \frac{1}{sRC + 1} \Rightarrow$$

$$\Rightarrow H(s) = \frac{1}{sRC + 1}$$

$$f = \frac{2\pi}{\omega} \Rightarrow \omega = 2\pi \cdot f \Rightarrow 10 \text{ KHz} = 6,28 \cdot 10^4 \text{ rad/s} \Rightarrow C = 0,159 \text{ F}$$