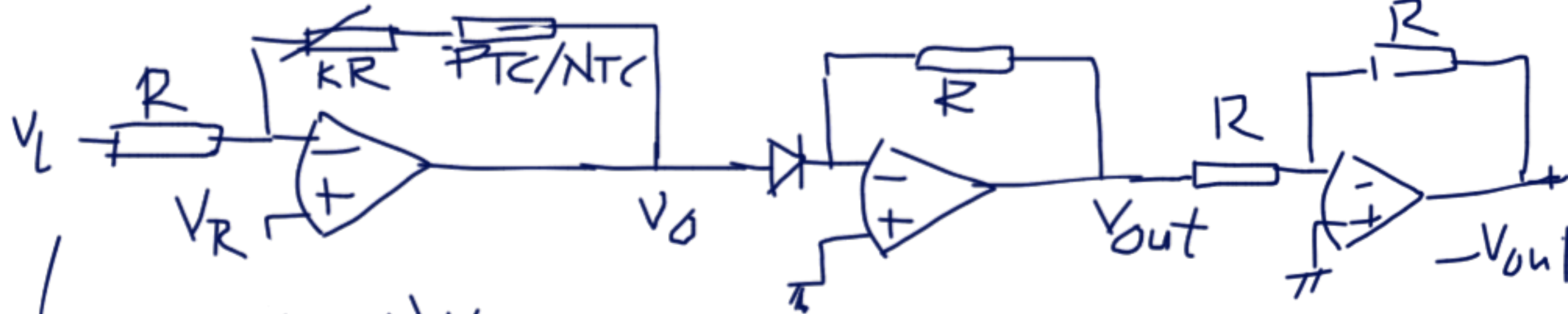
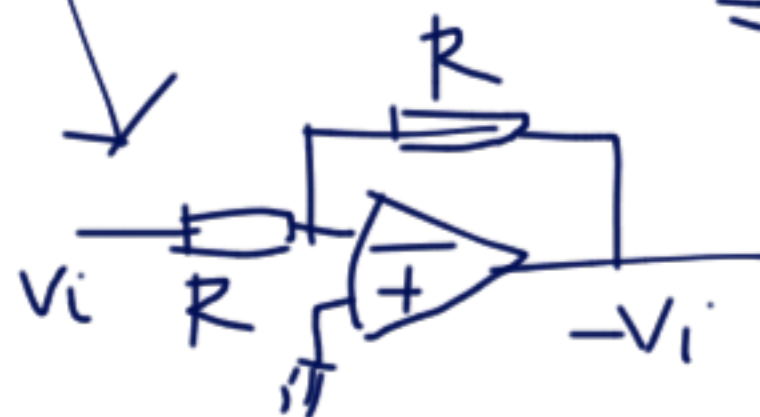




$$V_0 = (1+k)V_R - kV_i$$

$$\begin{aligned} -V_{out} &= \log^{-1} \left[K + \log R + 7.96 \left[(1+k)V_R - kV_i \right] \right] \\ &= \log^{-1} \left[\underbrace{K + \log R + 7.96(1+k)V_R}_0 - \underbrace{7.96kV_0}_{k = \frac{1}{7.96}} \right] \end{aligned}$$

$$= \log^{-1} [-V_i] \rightarrow 0$$



$$V_{out} = \log^{-1} V_i$$