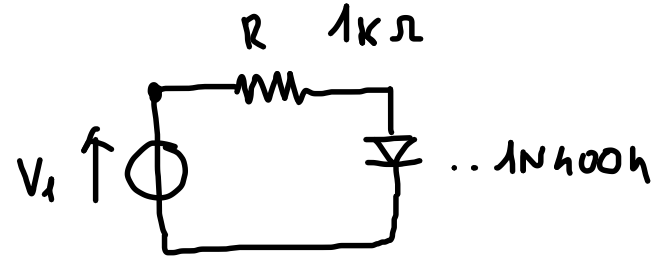
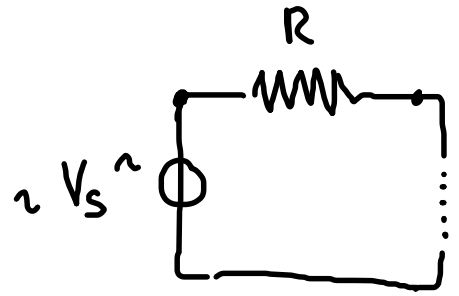
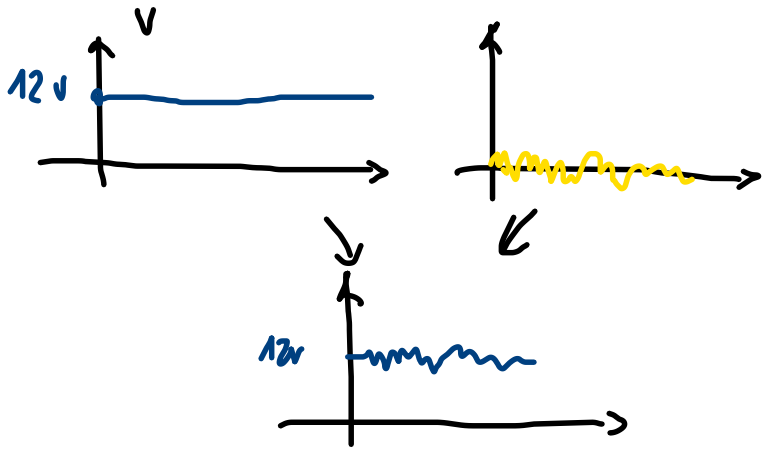
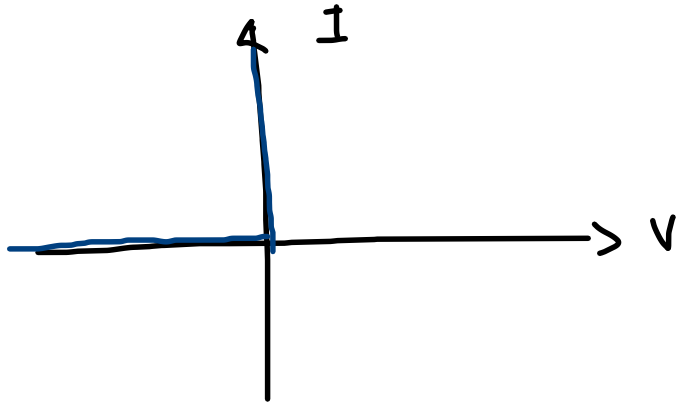
GRANDI SEGNALI - PICCOLI SEGNALI

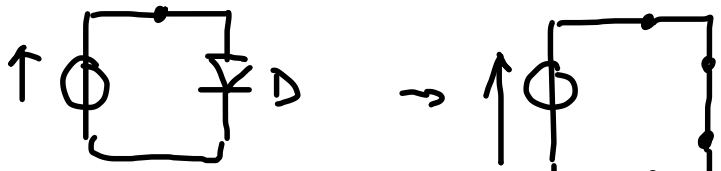


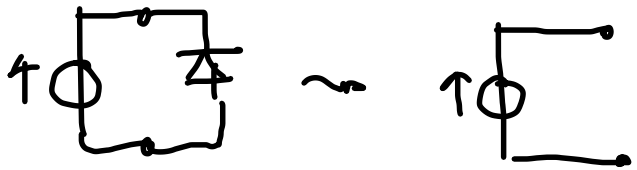
12V

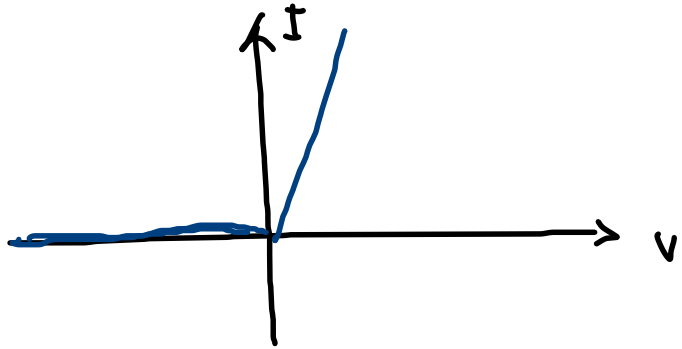


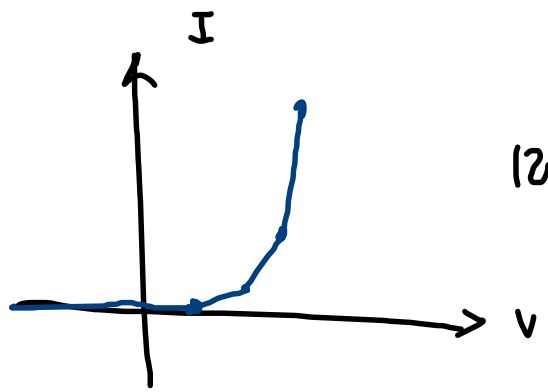


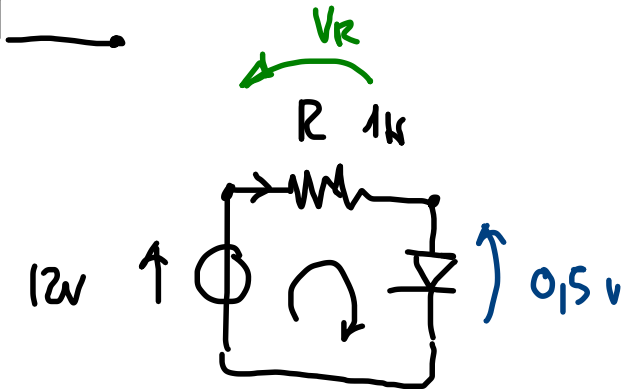


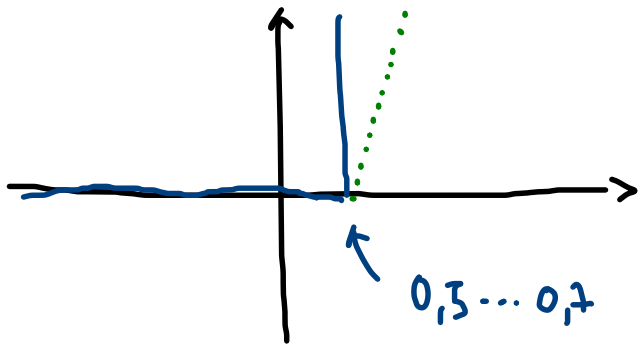








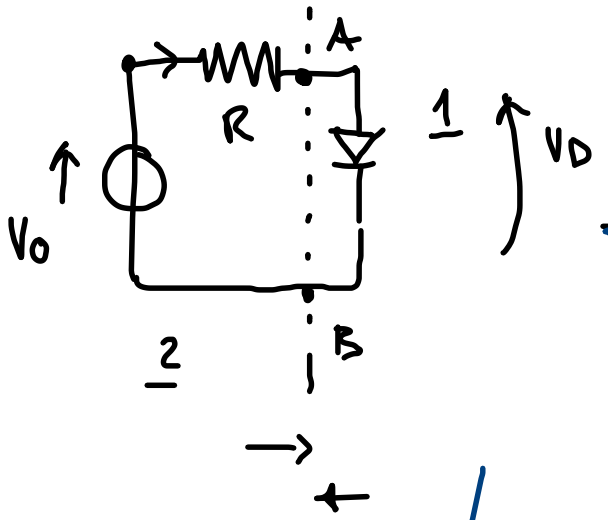


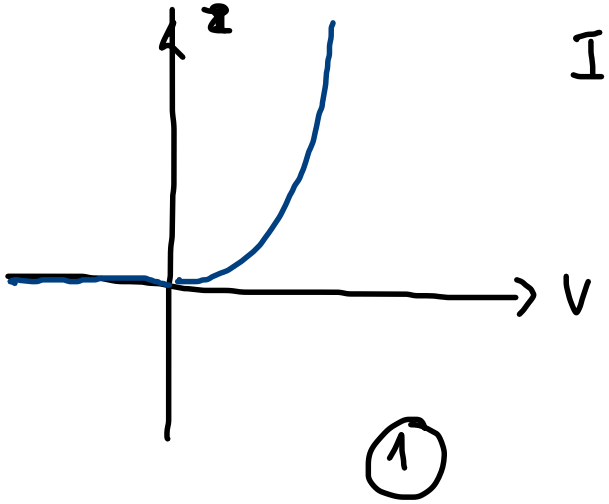


$$12V - I \cdot R - 0{,}5\,V = 0$$

$$I \cdot R = 12 - 0{,}5 = 11{,}5 \qquad I = \frac{11{,}5\,V}{1k} = \ldots$$

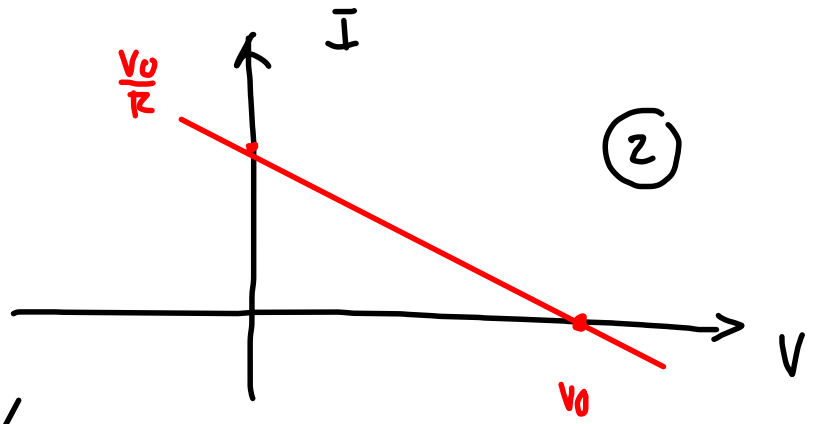
P. sgn.

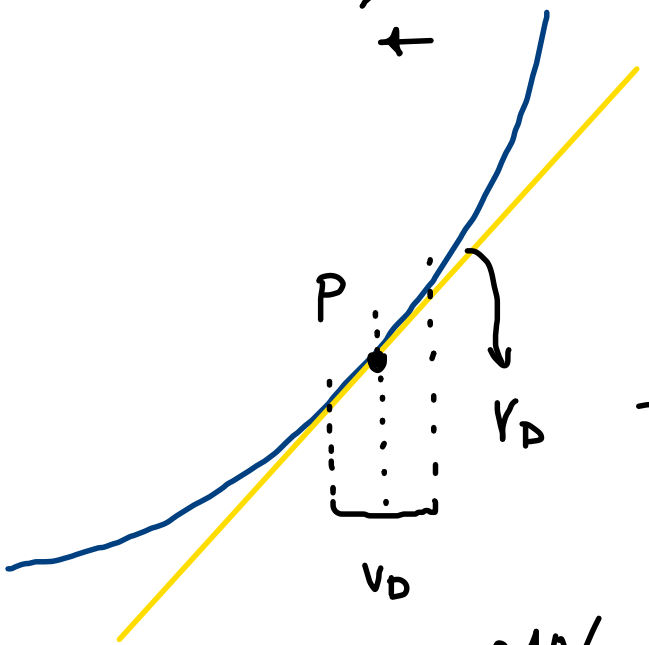


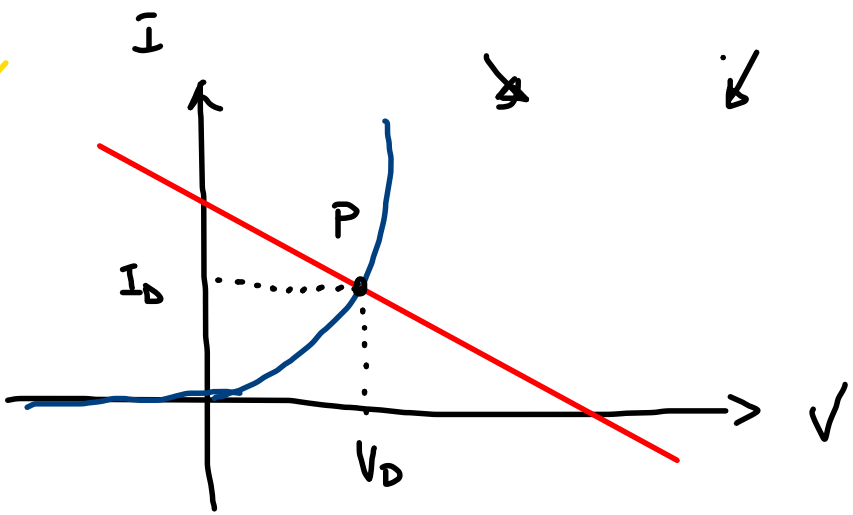


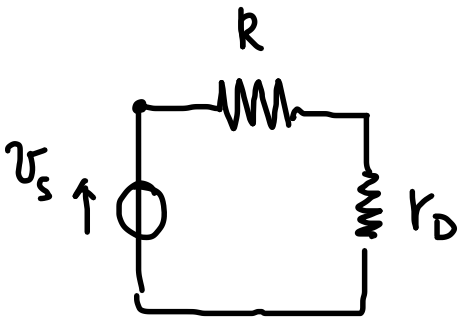
$$I = I_s\left(e^{\frac{V}{\eta V_T}} - 1\right)$$

①









$\sim$ 10/20 mV

$$\frac{\Delta I}{\Delta V} \rightsquigarrow \frac{dI}{dV} = g_D = \frac{I}{\eta \cdot V_T} \rightsquigarrow r_D = \frac{1}{g_D} = \frac{\eta \cdot V_T}{I}$$