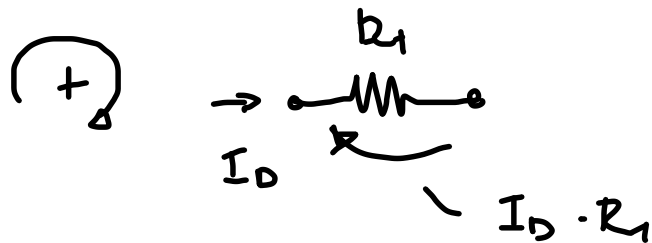
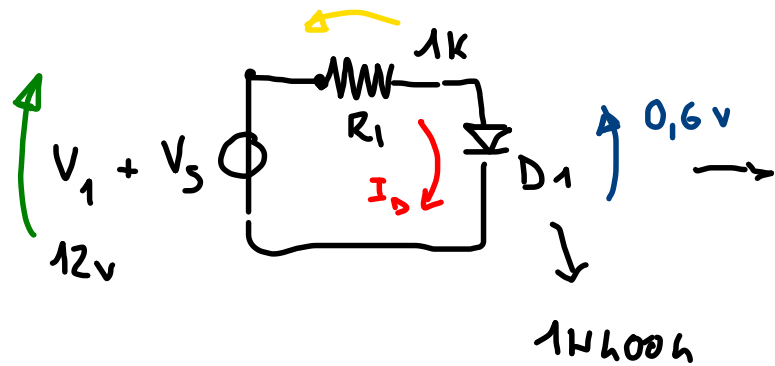
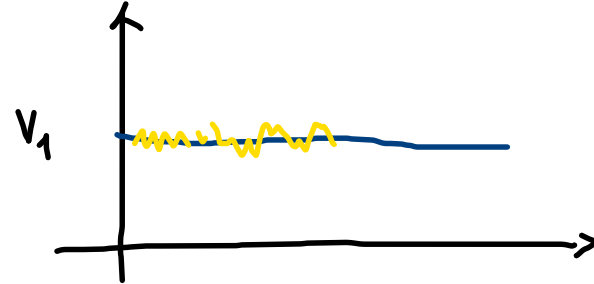


36h



$$I_D = \frac{11,4}{1k} \cong 11,4 \text{ mA}$$

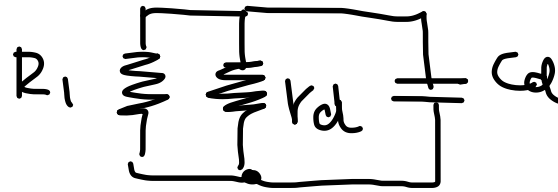
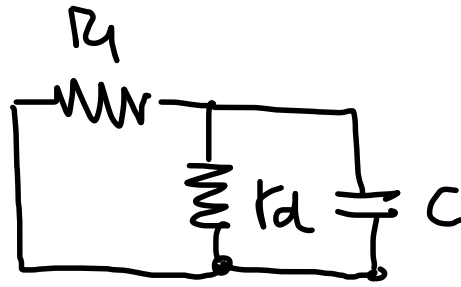
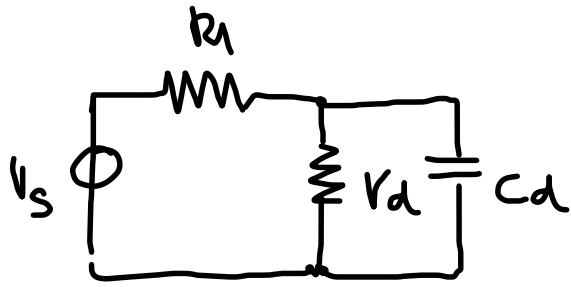


$$V_1 - I_D \cdot R_1 - 0,6 = \phi$$

$$- \underbrace{I_D \cdot R_1}_{\text{voltage drop}} = 0,6 - V_1$$

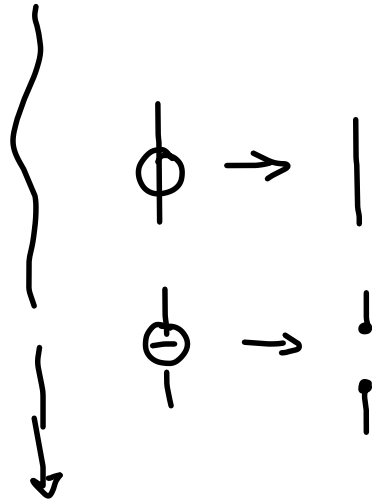
$$I_D \cdot R_1 = -0,6 + V_1$$

$$I_D = \frac{V_1 - 0,6}{R_1} = \frac{12 - 0,6}{1k} =$$



$$\tilde{\tau} = (R_1 \parallel r_d) \cdot C_d$$

$$R_1 \gg r_d \quad \leadsto \quad \tilde{\tau} = r_d C_d$$



$$v_s = A_o \cdot \sin(-)$$