$$\begin{cases} V_{2} < V_{T} \Rightarrow I_{p} = 0 \Rightarrow V_{2} = \ell_{2} - \frac{V_{0}}{\ell_{1} + \ell_{2}} = \frac{\ell_{2}}{\ell_{1} + \ell_{2}} \cdot V_{0} = \frac{V_{0}}{2} \\ V_{2} > V_{T} \Rightarrow I_{p} > 0 \text{ AND } V_{p} = V_{T} \Rightarrow V_{T} = V_{2} \end{cases}$$

a)
$$V_0 = 1.0$$

 $V_2 = \frac{1}{2} = 0.5 \text{ V Timer 18} < V_7 \Rightarrow I_0 = 0 \Rightarrow V_2 = 0.5 \text{ V}$

b)
$$V_0 = 2.6$$

 $V_2 = \frac{2}{2} = 1 \sqrt{\frac{7}{100}} / 15 > \frac{1}{7} \Rightarrow V_2 = V_7 = 0,7 V$