



T_{ON} :

$$v_c(t') = Y(t') \left[-\frac{V_{DD}}{2} + \left(V_{DD} + \frac{V_{DD}}{2} \right) (1 - e^{-t'/RC}) \right]$$

$$0 = -\frac{V_{DD}}{2} + \left(V_{DD} + \frac{V_{DD}}{2} \right) (1 - e^{-\frac{T_{ON}}{RC}}) \Rightarrow \boxed{T_{ON} = RC \ln(3/2)}$$

T_{OFF} :

$$v_c(t'') = Y(t'') \left[-V_{DD} (1 - e^{-t''/RC}) \right]$$

Papirer