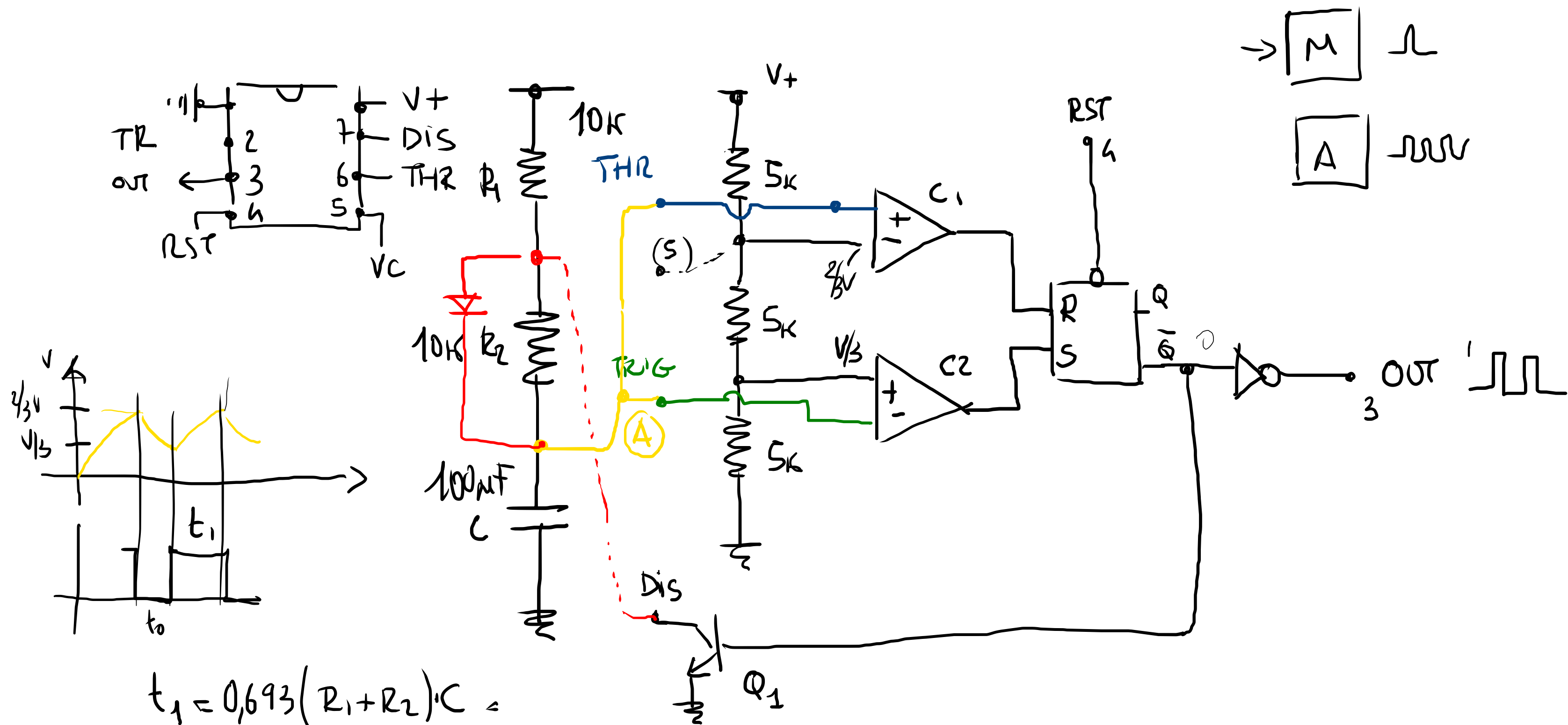
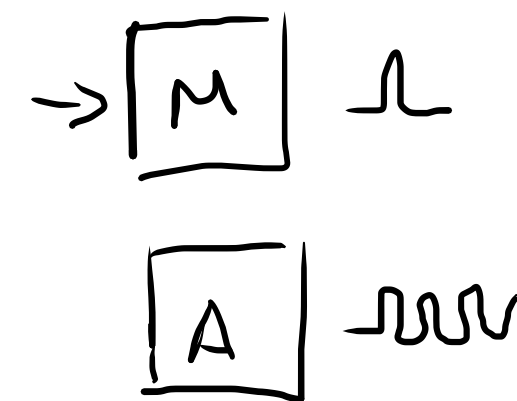


# 161 - 555 Timer



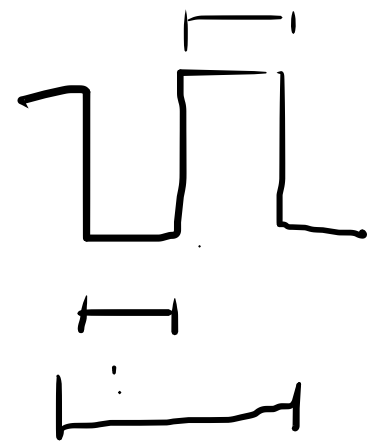
$$t_1 = 0,693(R_1 + R_2) \cdot C =$$

$$t_0 = 0,693(R_2 C_1) =$$



$$\begin{aligned}
 t_1 &= 0,693 \cdot (20 \cdot 10^3 \cdot 100 \cdot 10^{-6}) = \\
 &= 0,693 (20 \cdot 10^3 \cdot 10^2 \cdot 10^{-6}) = \frac{0,693 \cdot 20}{10} = \underline{1,38 \text{ s}}
 \end{aligned}$$

$$t_0 = 0,693 \cdot \underbrace{10 \cdot 10^3 \cdot 100 \cdot 10^{-6}}_1 = 0,693 \text{ s}$$



$$f = \frac{1}{t_1 + t_0} = \frac{1}{2,079} = 0,48 \text{ Hz}$$