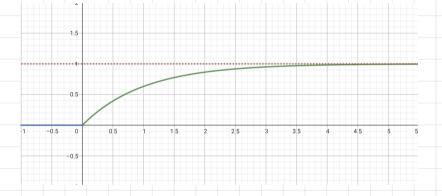
$$G(S) = \frac{1}{ST+1}$$
,  $U(t) = I(t)$   $\Longrightarrow$   $U(S) = \frac{1}{S}$ 

$$=D \quad \mathcal{Y}(S) = \frac{1}{ST+1} \cdot \frac{1}{S} = \frac{1}{S(ST+1)} = \frac{1}{T(S+\frac{1}{T})S} \cdot \frac{T}{T} = \frac{\frac{1}{T}}{S(S+\frac{1}{T})} = \frac{\frac{2}{T}}{S} + \frac{\frac{2}{T}}{S+\frac{1}{T}}$$

$$\begin{cases} P_1 = 0 \\ P_2 = -\frac{1}{T} \end{cases} = 0 \quad \begin{cases} \lim_{S \to 0} S \cdot \frac{1}{T} \\ S(S + \frac{1}{T}) \end{cases} = 0 \quad \begin{cases} \lim_{S \to 0} S \cdot \frac{1}{T} \\ S(S + \frac{1}{T}) \end{cases} = 0 \quad \begin{cases} \lim_{S \to 0} S \cdot \frac{1}{T} \\ S(S + \frac{1}{T}) \end{cases} = 0 \quad \begin{cases} \lim_{S \to 0} S \cdot \frac{1}{T} \\ S(S + \frac{1}{T}) \end{cases} = 0 \quad \begin{cases} \lim_{S \to 0} S \cdot \frac{1}{T} \\ S(S + \frac{1}{T}) \end{cases} = 0 \quad \begin{cases} \lim_{S \to 0} S \cdot \frac{1}{T} \\ S(S + \frac{1}{T}) \end{cases} = 0 \quad \begin{cases} \lim_{S \to 0} S \cdot \frac{1}{T} \\ S(S + \frac{1}{T}) \end{cases} = 0 \quad \begin{cases} \lim_{S \to 0} S \cdot \frac{1}{T} \\ S(S + \frac{1}{T}) \end{cases} = 0 \quad \begin{cases} \lim_{S \to 0} S \cdot \frac{1}{T} \\ S(S + \frac{1}{T}) \end{cases} = 0 \quad \begin{cases} \lim_{S \to 0} S \cdot \frac{1}{T} \\ S(S + \frac{1}{T}) \end{cases} = 0 \quad \begin{cases} \lim_{S \to 0} S \cdot \frac{1}{T} \\ S(S + \frac{1}{T}) \end{cases} = 0 \quad \begin{cases} \lim_{S \to 0} S \cdot \frac{1}{T} \\ S(S + \frac{1}{T}) \end{cases} = 0 \quad \begin{cases} \lim_{S \to 0} S \cdot \frac{1}{T} \\ S(S + \frac{1}{T}) \end{cases} = 0 \quad \begin{cases} \lim_{S \to 0} S \cdot \frac{1}{T} \\ S(S + \frac{1}{T}) \end{cases} = 0 \quad \begin{cases} \lim_{S \to 0} S \cdot \frac{1}{T} \\ S(S + \frac{1}{T}) \end{cases} = 0 \quad \begin{cases} \lim_{S \to 0} S \cdot \frac{1}{T} \\ S(S + \frac{1}{T}) \end{cases} = 0 \quad \begin{cases} \lim_{S \to 0} S \cdot \frac{1}{T} \\ S(S + \frac{1}{T}) \end{cases} = 0 \quad \begin{cases} \lim_{S \to 0} S \cdot \frac{1}{T} \\ S(S + \frac{1}{T}) \end{cases} = 0 \quad \begin{cases} \lim_{S \to 0} S \cdot \frac{1}{T} \\ S(S + \frac{1}{T}) \end{cases} = 0 \quad \begin{cases} \lim_{S \to 0} S \cdot \frac{1}{T} \\ S(S + \frac{1}{T}) \end{cases} = 0 \quad \begin{cases} \lim_{S \to 0} S \cdot \frac{1}{T} \\ S(S + \frac{1}{T}) \end{cases} = 0 \quad \begin{cases} \lim_{S \to 0} S \cdot \frac{1}{T} \\ S(S + \frac{1}{T}) \end{cases} = 0 \quad \begin{cases} \lim_{S \to 0} S \cdot \frac{1}{T} \\ S(S + \frac{1}{T}) \end{cases} = 0 \quad \begin{cases} \lim_{S \to 0} S \cdot \frac{1}{T} \\ S(S + \frac{1}{T}) \end{cases} = 0 \quad \begin{cases} \lim_{S \to 0} S \cdot \frac{1}{T} \\ S(S + \frac{1}{T}) \end{cases} = 0 \quad \begin{cases} \lim_{S \to 0} S \cdot \frac{1}{T} \\ S(S + \frac{1}{T}) \end{cases} = 0 \quad \begin{cases} \lim_{S \to 0} S \cdot \frac{1}{T} \\ S(S + \frac{1}{T}) \end{cases} = 0 \quad \begin{cases} \lim_{S \to 0} S \cdot \frac{1}{T} \\ S(S + \frac{1}{T}) \end{cases} = 0 \quad \begin{cases} \lim_{S \to 0} S \cdot \frac{1}{T} \\ S(S + \frac{1}{T}) \end{cases} = 0 \quad \begin{cases} \lim_{S \to 0} S \cdot \frac{1}{T} \\ S(S + \frac{1}{T}) \end{cases} = 0 \quad \begin{cases} \lim_{S \to 0} S \cdot \frac{1}{T} \\ S(S + \frac{1}{T}) \end{cases} = 0 \quad \begin{cases} \lim_{S \to 0} S \cdot \frac{1}{T} \\ S(S + \frac{1}{T}) \end{cases} = 0 \quad \begin{cases} \lim_{S \to 0} S \cdot \frac{1}{T} \\ S(S + \frac{1}{T}) \end{cases} = 0 \quad \begin{cases} \lim_{S \to 0} S \cdot \frac{1}{T} \\ S(S + \frac{1}{T}) \end{cases} = 0 \quad \begin{cases} \lim_{S \to 0} S \cdot \frac{1}{T} \\ S(S + \frac{1}{T}) \end{cases} = 0 \quad \begin{cases} \lim_{S \to 0} S \cdot \frac{1}{T} \\ S(S + \frac{1}{T}) \end{cases} = 0 \quad \begin{cases} \lim_{S \to 0} S \cdot \frac{1}{T} \\ S(S + \frac{1}{T}) \end{cases} = 0 \quad \begin{cases} \lim_{S \to 0} S \cdot \frac{1}{T} \\ S(S + \frac{1}{T}) \end{cases} = 0 \quad \begin{cases} \lim_{S \to 0} S \cdot \frac{1}{T} \\ S(S + \frac{1}{T}) \end{cases} = 0 \quad \begin{cases} \lim_{S \to 0} S \cdot \frac{1}{T} \\ S(S + \frac{1}{T}) \end{cases} = 0 \quad \begin{cases} \lim_{S \to 0} S \cdot \frac{1}{T} \\ S(S + \frac{1}{T}) \end{cases} = 0 \quad$$

-0 Riscrivo 
$$S(s+\frac{1}{7}) = S - \frac{1}{8 + \frac{1}{7}} \overline{Y}(s)$$

trovo 
$$y(t)$$
 come  $y(t) = \mathcal{L}[Y(s)] = 1(t) - e^{-\frac{t}{T}t}$   $= (1 - e^{-\frac{t}{T}t}) \cdot 1(t) = 1 - e^{-\frac{t}{T}t}$ 



## IL SYS E' STABILE

Siccome 
$$G(S) = \frac{1}{ST + 1} \log P = -\frac{1}{T}$$

- <del>†</del>

## COME DISEGNARE LA RISPOSTA?

$$= \lim_{S \to 0.00} 1 - \frac{s}{s(1+s_1)} = 0 \quad \text{in } t = 0$$

Pendenza della retta in 0:

(1) trovo la derivata con le proprietà

$$\mathcal{L}\left[\frac{d}{dt} y(t)\right] = S \cdot y(s) = 1 - \frac{s}{s + \frac{1}{2}}$$