Trope: ver and einen Internal I distributionall u'' + u = 0 giet, when ist claim $u \in C^2(I)$?

Enforces Fall: $u'+u=0 \Rightarrow u \in C^{\infty}(I)$ ($I \in \mathbb{R}$... Submoll)

white $E(x):=e^{x}$ is $E(u)'=E'u+Eu'=E(u+u')=0 \Rightarrow Eu=coust$, $E(x):=e^{x}$ is $E(x)'=e^{x}$. $E(x)'=e^{x}$.

 $\frac{\text{Mo. Foll:}}{A} \quad u'' + u = 0 \implies u' = \pi, \ \pi' + u = 0, \ d. \ b. \quad \binom{u}{\pi} + \binom{0}{1} = 0$

Su du sine repulse chat (xo I). A (xo I).

down giet $(E(y))' = EA(y) + E(y)' = E((y)' + A(y)) = 0 \Rightarrow E.(y) = count$, $(y) = E^{-1}$. count, $(x) = E^{-1}$. count, $(x) = E^{-1}$. count, $(x) = E^{-1}$.