





FOR THE MEH $\longrightarrow \hat{f}^{(lm)} = (i\xi)^{lm} \hat{f}(\xi)$

A MORE REGULAR & (... & C.)

SOLVE : $O = \frac{1}{3} \left(\frac{3}{3t} \alpha - \frac{3^2}{3x^2} \alpha \right) (\xi, t) = 0$ $= \frac{\partial}{\partial t} \hat{u}(\xi,t) + \xi^2 \hat{u}(\xi,t)$ $\hat{u}(\xi,t) = \hat{u}_o(\xi)e^{-t\xi^2}$ $2\pi u(x,t) = \mathcal{F}^*(\hat{u}(\xi,t))$ = F*(ûo(\$)e-+\$2)(x) $u(x,t) = u_0 + P_t(x)$ =40*0 P(x)

(x"f(x) INTEGRABLE JE"

HORE REGUAR Ê

MORE INTEGRABLE F

