19.01 20.13. Rough Path. Dy 2.

(8) Nyont 11-renervian Sopenelacion meps no [9,7]

Propagaire varyee periorial your $y''=\mu$ reply grying paces, f(t)=y'(t,0)Venumus: Ran & yvvn, xonin yvvn y repositions grying $\psi \in C_0^{\infty}(0,7)$ some bornonaus. (x,y'',y')=(x,y,y')The $\int y'(x)y(x)dx = \int \varphi(x)\mu(dx)$ $\int \varphi(x) d\mu(x)$ $\int \varphi(x) dy(x) = \int \varphi(x) \varphi(x) d\mu(x)$ $\int \varphi(x) \varphi(x) dx$ $\int \varphi(x) dx = \int \varphi(x) \varphi(x) dx$

 $\Rightarrow \int_{0}^{T} y(x) \psi''(x) dx = \int_{0}^{T} \left(\int_{0}^{x} f(s) ds \right) \psi''(x) dx$ $\Rightarrow \left(\int_{0}^{x} f(s) ds + C_{1}x + C_{2} \right) - Orber.$