$$\overline{\mathcal{F}} = + \Delta i f \left(2023.6.2 \right)$$

$$Q: 3 \text{ in } f \text{ in } \Delta t$$

$$L(8) = \int_{a}^{b} \int (\alpha'(t))^{2} + (y'(t))^{2} dt$$

$$2f \text{ a. e. } \text{ if } \text{ if } \text{ if } \frac{1}{2} \text{ if } \Delta t$$

$$E[2]: \quad \forall : [0,1] \rightarrow \mathbb{R}^{2}$$

$$t \mapsto (F(t), F(t))$$

$$\exists x + F = (-1.3)(2)$$

$$F = f = (-1.3)(2)$$

$$L(8) = \sqrt{2}$$

$$\Rightarrow \int_{a}^{b} \int (\alpha'(t))^{2} + (y'(t)) dt = 0$$

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$$\Rightarrow \int_{a}^{b} \int (\alpha'(t))^{2} + (\beta'(t)) dt = 0$$

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$$\Rightarrow \int_{a}^{b} \int (\alpha'(t))^{2} + (\beta'(t))^{2} + (\beta'$$

Then
$$\sqrt{7}$$
 AC $\frac{1}{2}$ $\frac{1}{2}$

$$\leq \sum_{k=1}^{n} \int_{t_{k-1}}^{t_{k}} |f'(t)| dt = \int_{a}^{b} |f'(t)| dt$$

$$\Rightarrow \bigvee_{a}^{b} (f) \leq \int_{a}^{b} |f'(t)| dt$$

$$\Rightarrow \text{SteP 2} \qquad \text{LHS} \geq \text{RHS}$$

$$\forall \xi > 0 , \exists \forall \text{Phif} \exists \xi \xi \text{ s.t.}$$

$$\|f' - \psi\|_{1} \leq \xi.$$

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$$|f'(t) - \psi(t)|_{1} dt$$

$$|h' = f' - \psi \quad \text{a.e.} \quad (by LDT)$$

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$$|h'$$

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{ p. x } ~ x = o it & 2 LIRN = { IRN + Lebes que 7 17 15 } ig IRN o-17 \$\$. Vs FC2X Def (包含于一样的一件的) の(テ) def () m () m () m つかな m つ テ なる テ イ 版 い の 一 代数. (3): 13(X, =) ~ 十日かりこの BX = T(T) 967, X = - Borel 0-1765 BX中元素给为Bore等,包括开学,用学 Fo 13, 66 3, ---Def (X, m) - 5/2/=10 (i) $\mu(\phi) = 0$

(ii)
$$(\neg x y + 1)$$
 $m \ni E_{K}, k = 1, 2...$
 $\Rightarrow \mu(\bigcup_{k=1}^{\infty} E_{K}) = \sum_{k=1}^{\infty} \mu(E_{k})$
 $\Rightarrow \mu(X) = \sum_{k=1}^{\infty} \mu(E_{k})$
 $\Rightarrow \mu(E) = \sum_{k=1}^{\infty}$