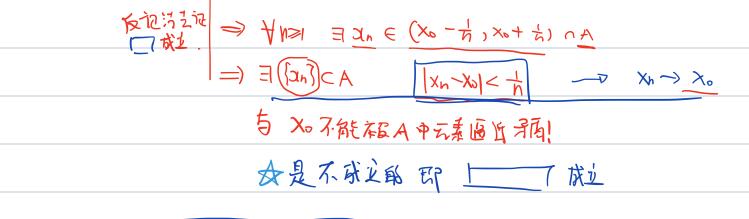
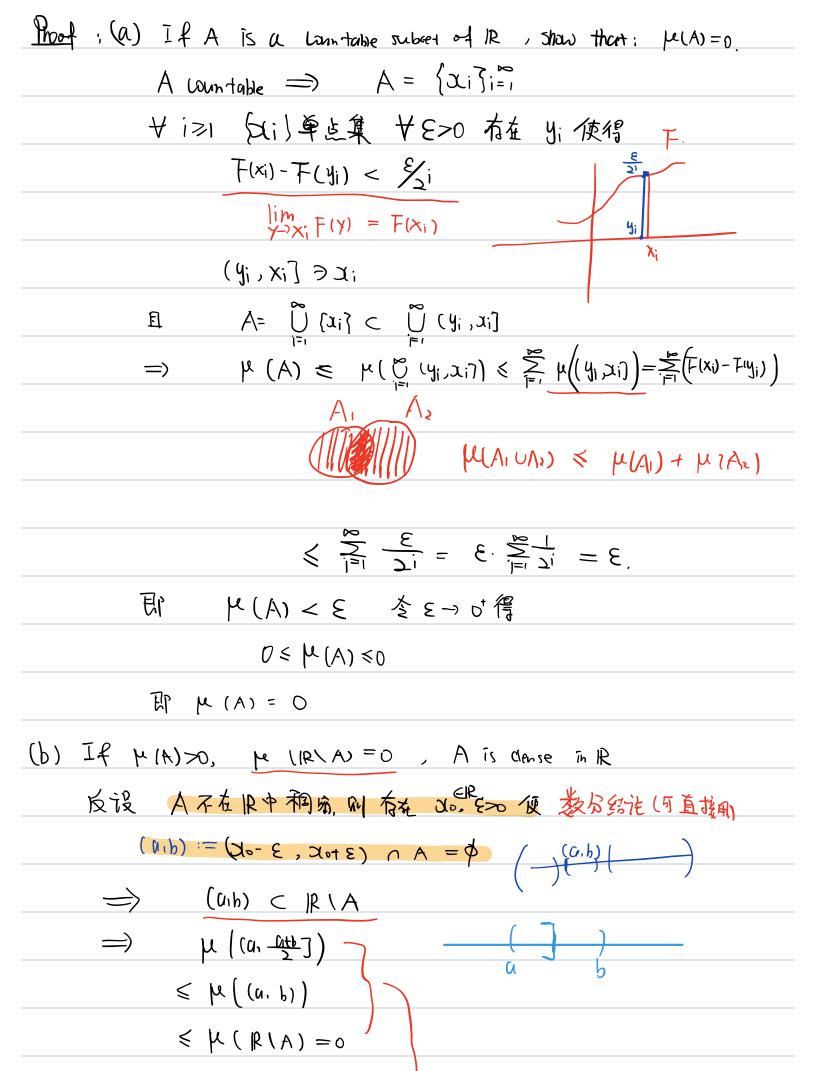


~ R to t -finite.

f(x) = f(x) on $f(x)$
取 AET 且 K(A) < ~ [] [(2]) = 1
$\chi(A) = 2 \mu(A)$
即 入(A) ≠ p(A) 1
2 F: 1R2 - 1R right continuous and non de creasing i
$1(x+y \in I)$
3. Let F: R-> IR be an in creasing wantimous function and u be the
Lebesque - Stieltjes Measure on R Lomesponding T.
(a) If A is Lountable subset of R, show than peca) =0
(b) If $\mu(A)>0$, $\mu(R(A)=0$, show A is dense in R.
Remark:
A îs dense în R: YXER, 3 XNEA (NZI) S.t.
$\alpha_n \rightarrow \alpha$ $\alpha_n \in A$
Q dense in R
12 # (1.4) 4) ···
1.4(4
A 不在限中稠密: 在在 Xo ER , Zo 不能被 A中元美通过
图 (□ E >O, (□ O - E, Xo+ E) 八 A=中 不和原的等价和
京 (コーモ、Xotを) ハA=中」 不和的的等係を 意 (オート) (オート) ハA + 中 A
$\Rightarrow \forall \land \exists \land (\exists \circ \neg \neg \land) \land \land \Rightarrow \Diamond \Rightarrow \Diamond$



Lebesque - Stieltjes. Measure. F: IR -> IR -Punction, Hight-continuous, increasing • (α, b) $\longrightarrow (\mu((0, 5)) = F(b) - F(a))$ 一年环上的集函数,强证中满足口可加性 Caratheodon 239 · p: BR -> D, 同. 剂度 $\mu: C \longrightarrow \overline{\iota}_0, \omega$ $(\alpha, b) = 0$ $(\alpha, b) = 0$ $(\alpha, b) = 0$ ₩: \(\sigma(C) -> \text{Torsign} BR, Fright worth nuous, Increasing function. (OIB) PF Borel measure $V_{\mp}(\alpha, b) = \mp(b) - \mp(\alpha)$ $\mu_{F}(A) = \inf \left\{ \sum_{i=1}^{\infty} (F(b_i) - F(a_i)) : A \subset \bigcup_{i=1}^{\infty} (a_i, b_i) \right\} \forall A \subset \mathbb{R}.$



$P(a, \frac{a+1}{2}) = F(a) > 0$	In Creasing
$\frac{P(a, \frac{a+1}{2}) - F(a) > 0}{E(b)} = F(\frac{a+1}{2}) - F(a) > 0$	·
矛盾! 即 A在R中和密.	þ

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