作业题: 2.4. (1) $P(20) = P(0) = 2P(0) \implies P(0) = 0$. $p(\theta) = p(x + (-x)) \leq p(x) + p(-x) \Rightarrow p(-x) \geq -p(x).$ 13, 魔鬼 * Xo =0. 刚为任教 X1 =0. ·只需《to 大 to 大 So=Span fxx). \$ f(1x0) = Ap(x0). ム对 20. f(2/2)=2p(20)=p(22) $\mathcal{F}_{\lambda} = \int (\lambda x_{\lambda}) = -(-\lambda) p(x_{\lambda}) = -p(-\lambda x_{\lambda}) \leq p(\lambda x_{\lambda}).$ ·由H町. 延招存在 D Z.4.2. 正知收税: p(XX) = limsuplan = limsup an = limsup a 设うかね、p(x+y) = lin sup (an+ bn) (本般反将 X 改为有者期7全体). 2 a = limsup an. b = limsup bn. 对 V C も an+ bn 的程限点 即 ヨ 3 計 ank+ bnk → c. The ank to 334 anky -> a .. a = a + anky + bney -> C " by > i-2 > c-2=b : C= 2+ c-2 € a+b. instant and a limston (ant ba) & a+b D.

> 票。 扫描全能王 创建

2.43. 由《p(Xo) +0. p为羊花数 => 20. 全 Xo= span frol. · 定义 f@(AX=)=A、 $\therefore |f(\lambda x_0)| = |\lambda| = \frac{p(\lambda x_0)}{p(x_0)}$ O HBT. LERGO 由于 户(水) 同样为半花数 J. (1): =) XEÊ 购名X=O ⇒ P(X)=0. 1.5.1. 者x+0. ヨトフロ siti Brix) CE. 即 X+之(x) EE. (E不好放 r<1×1) $P(x) \leq \frac{1}{1+\frac{r}{2}} \leq 1.$ (=. 若 p(x) <1. 由连接性 ∃ €, 870 sit, p(y) < 1- € 对 ∀ y ∈ B(x. б). ·对 Yye B(x,5). 取 0 0 0 < ay < 1-12 . 5.t ay E : OEE >> YEE. : B(x, 8) SE => X EE a (2): E° 公区处 $\overline{E} = \frac{1}{\{x \mid p(x) < 1\}} = \frac{1}{\{x \mid p(x) \leq 1\}} (\theta p \alpha \cancel{b} \cancel{b}).$ 对 $\forall x \in \overline{E}$ 习 $\chi_n \to \chi$. $\chi_n \in E$ 由 $\chi_n \in E$ 习 $P(\chi_n) \leq I$ 小肉连续为 p(x) si 司 x e Eo 司 E c Eo 2.45, $\sharp x \in X_0$ $\forall f \in X_0$ $\forall f \in X_0$, $f(x_0) \Rightarrow f(x_0) \Rightarrow f(x$ 老x丰/o : d=p(x, X)>0. xt y f ∈ x* f(x) >> 11 f11 = 1. 对 Y i70. 取 Ø y ∈ Xo. d(x, ●y) < d+c. $|f(x)| = |f(x)| + f(x-y)| = |f(x-y)| \leq |f($ 今行り Ifixi (id) => RHS Ed. for sup of f. 曲茂雅 2-4.7. 目 f(x) = 0, "f" = 1. f(x) = d. $\Rightarrow RHS \geq d$. D. 2.4.6. => (\frac{\tau}{k=1}a_k \times_k) = |\frac{\tau}{k=1}a_k C_k| \leq || fin || \frac{\tau}{k=1}a_k \times_k || \leq M || \frac{\tau}{k=1}a_k \times_k || E: A Xo= span{x1... xn7 2 f: Xo → k Zakxk H) ZakCk

:.由 量条件 4xeX [fxx] = M 11x11 => 11f11x =M & f(xk)=(k

 \Box

由HBT, 延祝存在,

2.4.7. 含 $X_0 = span \{ \chi_1, \dots, \chi_n \}$ 由 χ_1, \dots, χ_n 我 $A \in \mathcal{X}_n$ 为 $\chi_1 \notin X_0 \Rightarrow d(x_1, X_0) > 0$. $f(X_1) = 0, \quad f(\chi_1) = 1 \quad \text{By For } \chi_1 \in X_0 \Rightarrow d(x_1, X_0) > 0$. $f(X_0) = 0, \quad f(\chi_1) = 1 \quad \text{By For } \chi_2 \in X_0 \Rightarrow d(x_1, X_0) > 0$. $f(X_0) = 0, \quad f(\chi_1) = 1 \quad \text{By For } \chi_2 \in X_0 \Rightarrow d(x_1, X_0) > 0$. $f(X_0) = 0, \quad f(\chi_1) = 1 \quad \text{By For } \chi_2 \in X_0 \Rightarrow d(x_1, X_0) > 0$. $f(X_0) = 0, \quad f(\chi_1) = 1 \quad \text{By For } \chi_2 \in X_0 \Rightarrow d(x_1, X_0) > 0$. $f(X_0) = 0, \quad f(\chi_1) = 1 \quad \text{By For } \chi_2 \in X_0 \Rightarrow d(x_1, X_0) > 0$. $f(X_0) = 0, \quad f(\chi_1) = 1 \quad \text{By For } \chi_2 \in X_0 \Rightarrow d(x_1, X_0) > 0$. $f(X_0) = 0, \quad f(\chi_1) = 1 \quad \text{By For } \chi_2 \in X_0 \Rightarrow d(x_1, X_0) > 0$. $f(X_0) = 0, \quad f(\chi_1) = 1 \quad \text{By For } \chi_2 \in X_0 \Rightarrow d(x_1, X_0) > 0$. $f(X_0) = 0, \quad f(\chi_1) = 1 \quad \text{By For } \chi_2 \in X_0 \Rightarrow d(x_1, X_0) > 0$. $f(X_0) = 0, \quad f(\chi_1) = 1 \quad \text{By For } \chi_2 \in X_0 \Rightarrow d(x_1, X_0) > 0$. $f(X_0) = 0, \quad f(\chi_1) = 1 \quad \text{By For } \chi_2 \in X_0 \Rightarrow d(\chi_1) = 0$. $f(X_0) = 0, \quad f(\chi_1) = 0, \quad f(\chi_1) = 0$. $f(X_0) = 0, \quad f(\chi_1) = 0, \quad f(\chi_1) = 0$. $f(X_0) = 0, \quad f(\chi_1) = 0, \quad f(\chi_1) = 0$. $f(\chi_1) = 0, \quad f(\chi_1) = 0, \quad f(\chi_1) = 0$. $f(\chi_1) = 0, \quad f(\chi_1) = 0, \quad f(\chi_1) = 0$. $f(\chi_1) = 0, \quad f(\chi_1) = 0, \quad f(\chi_1) = 0$. $f(\chi_1) = 0, \quad f(\chi_1) = 0, \quad f(\chi_1) = 0$. $f(\chi_1) = 0, \quad f(\chi_1) = 0, \quad f(\chi_1) = 0$. $f(\chi_1) = 0, \quad f(\chi_1) = 0, \quad f(\chi_1) = 0$. $f(\chi_1) = 0, \quad f(\chi_1) = 0, \quad f(\chi_1) = 0$. $f(\chi_1) = 0, \quad f(\chi_1) = 0, \quad f(\chi_1) = 0, \quad f(\chi_1) = 0$. $f(\chi_1) = 0, \quad f(\chi_1) = 0, \quad f(\chi_1) = 0, \quad f(\chi_1) = 0, \quad f(\chi_1) = 0$. $f(\chi_1) = 0, \quad f(\chi_1) = 0, \quad f(\chi_1)$

科系· 化明· $A \leq X$ 的四色为A 中任基四组合的任体 $P \cap A \leq B \cap B = \{ \sum_{i=1}^{n} \lambda_i \chi_i \mid \lambda_i \geq 0, \sum_{i=1}^{n} \lambda_i = 1, \chi_i \in A \}$

If: $\mathcal{L} = C$. At $x = \sum_{i=1}^{n} \lambda_i x_i$, $y = \sum_{j=1}^{n} \lambda_j y_j \in C$.

At λ_i , $\lambda_j \geq 0$, $\sum_{i=1}^{n} \lambda_i = \sum_{j=1}^{n} \lambda_j = 1$. λ_i , $\lambda_j \in A$.

At $\forall t \in [0,1]$ $\forall t \in [0,1]$ $\forall t \in C$.

こ。 C 为四年 ⇒ LHS \subseteq C - 另一分 対 \forall B . B \supseteq A . R 为四年 対 \forall X $i \in$ A . i = 1 . $i \in$ i = 1 . $i \in$ $i \in$ i

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