3.C2) anytax 证明如下: J.叫证=2/外樓部1 | Yn+p - yn = |an+1 | + | an+2 | + · · + | Ou+p| 不好谈 P2 | 1 an+1 - an |≤ 片 以有 | an+p-an |= | an+p-an+p-1+an+p-1-| Xn+p-Xn | = | an+1 + an+2+ - + an+6 | an+p-2+ . - + an+1 - an < | ant + | ant) + - + | antp | ≤ | an+p - an+p-1 + | an+p-1 - an+p-2 | + - ~ + 二××为基本3 | anop- an (2)证= Xn收敛 => Xn为基本3川=> xn为基本3川 = (n+p+)2+ (n+p-2), + · · + h2 z> Xnyb金久 · + n cu-1) (3) = | an 70 = (n+p-1)Cn+p-2)+ (n+p-2)Cn+p-3) 1/n-1/n-1=10n 30. - 1/n J. 且从有界 灯光收敛、 = n+p-2 - n+p-1 + n+p-3 - n+p-2 + - + n-1 - h  $=\frac{1}{n-1}-\frac{1}{n+p-1}=\frac{1}{n-1}<\xi$ . 7. xne[a,b] 则-定可找到Xan单调爆增. N コギ+ Xm异的争成, 且X值界. サミフO, ヨN=15+1, 12音 nフN. S.t.lang · · Xan与Xbn收敛. 1 an+pp= an | < 8. 即an为基本了1,为anybote. Xan收至b子b、Xbnyb后b子a.wy Jim Xni=A 到"孤发散. 4c|) | an+p-an = | (-1) 1+21 + -- + (-1) 1+p+) 1 / n+p 夕月存在两个本子子小收敛于不13根路.  $\leq \frac{1}{n+1} + \cdots + \frac{1}{n+p} \leq \frac{1}{n+1} - \frac{1}{n+2} - \frac{1}{n+3}$ 35.70 HUKEN s.t. RE-NK 5 h+1 5 2 n 2 8 -1 ank A 7, E. 4270, N= 1 - | HNON S.t. | an+p-an | x 2. ChroZATEN CANCOSA-E epan遊するり...anybeb 别存在以 《如此子的了一不 (2). | xn+p-xn = | \(\frac{\alpha(\script{cusen+p-1})!}{(p+n)(n+p)}\) \(\text{cusen+p-1})! \\
\tag{cusen+p-1}! \\
\tag{cusen+p 收敛子A THE [A+E. +, b] 划极限BZA+EOZA. n+p- n+p+ + n+p-1 - n+p + · · + n+1 - h+2 = n+1 - n+p+1 = n+1 = E りるなり 号得xn为基构(3) Xn收敛

La) liman= sup ( 15, 417, -- }= 15,2. 18.4520 38 18-x0/8 1fcx)-A/SE. 12) lim an = sup ( 1, 29, 1) = xn = ( ) A. 2. 水上: 1an 1, 1bn 1分上: 0 < 以m bn = um bn C. VIMPTOXO = MA. 1. Vim an - Limby & Um Con. br) Vim tcx)=0 (3) 4870, \$870, 5.to Vim Can.ba) = Vim an. Vim bn 0/x-x0/< S an-bn > CAT-3. 7 an >0 TCK)-10/< ATIE JACK 12 ヨるつ。ほの<x-20 · Yinfox)=A, lim gox)=B. |tex)-A|< B-A 1x-x0/< 8, 5.t. Ifcx)-a/= 8  $f(x) < \frac{A+B}{2}$ 1x-x0 < Sz 5.t. 1 fcx)-B = & 78200 100 0 XXX0 < 8 1 x=x= | < min | S1. S2 A+B < gcx) gox) B > B2 > B2 0 < X-X0 < min (8, 882) fcx 1< A+B < gcx) Vim Tos) = 3. 3570, \$ IX-XO (< 8 If CX)-A · Vima.存在. 沙 Viman=A>0 1. Vim an=0 3381 1. fcx1-11/1 = 1 fcx1/A/S - & < 0 < Onk < &. Vim aux =+0 Liman= A.

 $\frac{-4\bar{\xi}}{1+2\bar{\xi}} < x - |< \frac{4\bar{\xi}}{1-2\bar{\xi}} |< |x+1| < 3$   $\frac{-4\bar{\xi}}{1+2\bar{\xi}} < x - |< \frac{4\bar{\xi}}{1-2\bar{\xi}} |< |x+1| < 3$   $\frac{(x+1) < min | 4\bar{\xi}}{1+2\bar{\xi}} , 1-z\bar{\xi} | \delta = min | 1, z\bar{\xi} |$   $\frac{1}{1+2\bar{\xi}} < \frac{1}{1+2\bar{\xi}} , 1-z\bar{\xi} | \delta = min | 1, z\bar{\xi} |$ (S) | CSX-COSX. < E. 1X-X= < mIn | CACC-S(COSX0-E)-X0/ | arccoscosx.+E)-X. 4570. 1x-X0 < 有lim cusx=cosx。