

4·3)原式·limex じ)原式= 以m [1+x2-1 X2. J.(1)原式= līm extn Csīn文+cost) = lim ex ln (Sint+ast-1+1) z (vīmex(sint+ost-1) x700 = C x + x (SIn x + cos x -1) = expax(x +2. qx2) - etim (1/2X) 1m e x90 = ex=0 XCI-cosx)CI+tanx) = ex=0 XC/+tanx) 13) [G. A.: līm tanzx lh (tan x d))
= līm e tan xx (tan x -1)

= x34 = Lim e Sinzx X+7 CSDX. GSX (SINX-GSX)

= CXXX (CXX+SMX) COSX (4)=lim (20x4) ln(30x+2-2) Vim ex-1.3(ex+2-1) F LIMEXT X+2 = Lim (x+2 b. Jat= lime × In (ax + ax + - + ax) = lim ex (ax-1+ax-1+-+ax-1) = e lim ini bna, as -. an =1/a,-a,-- an 3.5.2 Sh= In+1 K+1871x2 >1K 1至10年00年10年 3(1) Sh=1n+1 th=1n. = | Th+ | = 2 | S & E Sh-th) >0 Smsh-Sinth Ep lin (fcsn)-efctn) \$0 C95244在[-1,1]振荡

VIM 9 17 fcx, 1 = Lim M. 9 1-1 = 0. 3.Q1)Cb). tn:Th Snzin |fcxn)|=0 日 fcxn)=0 : 至少存在一直多了e[a,b], T来fc3)=0 Lim (Sn-tn) Lim In+1+In 00 lim (fcsn) - fctn) = lim Sin(n+1) - Sinn 2.1670. ヨXフO, X,,X2>X,有1fcx)-fcxx) < E 由Cantor fcxx行Co, X+1]上一致转续 HX ETO, X+1] : limzouzn+1.sinz. :(To, x+1]+, 45>0, 78, >0 m<fcx)<M Sinxn- yorsin yn= 2005 xn+ynsin xn-yn 1 x1-x2 < 8, \$1 fexis - fexis < 8. < | 25Th xn-yn | = | Xn-yn | & X ·在西北), HE>O S= hoin (di,1) 取为 = |CXn+yh)CXn-yn) 1x,-x>=31 =)|fcx1)-fcx2)|~& JX>0, S.t. X>X時. < 2A (Xn-Yn) < E fcx,在to+2)上一致连续 A-Eo< tcx)<A+Eo 取8: 三 20 fcx)在[0,18]-致连续 2) fcxx在10,+xx有各min(m,A-E) fcx) < max(h, (3)(a) Sn= # znztn= 1 2nz+ = 3. 12 lim fox)=+20. 7M>0 38,>0 10<x-a<81 + tex)>M. Um (fcsn) - fctn) = z cos (2nz+2) sin(-2) 8- 100 cb-x c 81 fcx) >M. Ylim fcx)=lim fcx) + to fcx)在[a+S1, b-J2] 即該 以不一致连续 数fch在 Carb 连续 以XECa, a+8, UCb+8, 678 E[a+8, , b-8,] (東京 中X €[a+8, b (b)全t=xECO,言) | sint - sint > = 200 tot = tot | fex) >M fc3) < fex) DEXZa+ S, $\leq \left| t_1 - t_2 \right| = \left| \frac{1}{x_1} - \frac{1}{x_2} \right|$ Roe[a+8; b-8] - + CB) = + (a+8,1=M 市~x-ac8/0<b-X<82 Cb-8,b)" XECa,b) tc-3)=fcx.)<M<f tcz) < natixi グリ fcx)在(と,+20)上-致き 在I上满足Lipschitz与行 2 tcx)连线(=> fcx)在Ca,b)可取到嵌上具 5. 11= 11m fcx)=B. HA>O, 781 foliante) = b-X&S, S.t. If(x)-B| E. ey)=00 x1€[a, b-&1] (東fcx1)>B'. いtcx)在[a,b)连续、fcx)在[a,b-8,]连续 170x41 = 91fcx.) 1. DE 3 ? E[a, b- \$] XG[a, b-Si] Mm Xnx > M & [a,b] 及がかったいりつ "X, €1[cx, [a, 6] : fc3) > fcx) (xe[a,b)) :1fcx3) = 91fcx2) TZ O<b-xeS2 1 = x)-13 = E. 且xie[a,b] 作於姆對 再取S2 TX 10<b-XeO2 11~11 一个fcxi有容::(fcxi)EM 直列使得Xi/因于第一种情况为止。 |fcxn|| ≤ q 1 fcxn-1) |

 $\int f(x, b) > B = \lim_{x \to \infty} f(x)$ $\int f(x) < f(x, b)$ $\int f(x) < f(x, b)$ $\int f(x) = \int f(x, b) = \int f(x,$