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7. G. J. Jim G.X.+.+G....
       1.01) Vimcx2-6x+10)=2
    -> VimCx²-6x+8)=0.
                                                                                                                                                                                                                                                                 = (x70 x9+C10x8+ ·· + C/0
 → Vim (C X->) CX-4)
全8年 14 14 14
                                                                                                                                                                                                                                               (3), 成原才: (「不十1(31不+317+1)
  不妨取名7 (8-1/=1 3) xEC1,3)
             (x->- 1Cx-4) < 3Cx->) < E
                                                                                                                                                                                                                                                        原計=(「x-1)(x+1)(31x2+3x+1)
  1 5 < X < 2 + 5
                                                                                                                                                                                                                                                                            (1/1 -1 )(1/1 + 4/1 +1)(1/1+1)
 108 = min 1, 2
                                                                                                                                                                                                                                                                        = (x-1)(3/x+4/x+1);
             [x-2|<0. |cx-≥)cx-4)-2|< €
                                                                                                                                                                                                                                        (5) [ x = xx - x = 1 x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x - 1 + x
     Vim/(X->)CX-4) < (3CX->) < 2
                          Vim (CX-)(X-4) = 0
                                                                                                                                                                                                                                                                 = Um 1+ (X+1)+CX+X+1)+CX3+X+X+1)+
                                                                                                                                                                                                                                                                                                                                                                                                                                                 CXFT+XFT. H)
                                                                                                                                                                                                                                       (7) 157 = lim & [-K+KX-UXF
         3) Vim x - 6x+10=0
    6(1) Vim x[x] < Vim x: x=1
                                                                                                                                                                                                                                                                                    = Vim (Cl-x)Cl+x+-+x++)+k(x+)Cl+x+-+x+)
              Vim×[対] > Vin/×(オー1) 或程
                                                                                                                                                                                                                                                                         = \lim_{t \to 0} \frac{k[Ct+1)^{l}-1]-([Ct+1)^{k}-1]}{\int_{0}^{\infty} \frac{k[Ct+1)^{l}-1}{\int_{0}^{\infty} \frac{k[Ct+1)^{l}-1}{2}}}
= \lim_{t \to 0} \frac{k[1+(t+\frac{(Ct+1)}{2}t^{2}+\cdots-1]-([1+kt+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2}t+\frac{k(k+1)}{2
                                                                                                                                               2) n ≤[$]$n+
           ~ tim+x[x]=1.
                                                                                                                                          \left(\frac{1}{1+h} \cdot n < x\left[\frac{1}{x}\right]\right)
                                                                                           - 方< x < - i+n
(マ) - C(+n) = [ 大] = -n.
                                                                                                                                                                                                                                                             = Kly - k·lk+1 = b-k.
                                           nを対ミカナノコ) 市ナインを方.
 nmi<nx = (*)x<(n+1)x = (n+1)th.
       Vim note = notion not not = | Vim Cn+1) to lim cn+1) not no = 1
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-6).至x+1=t60 $\frac{t^{3}-t^{2}}{t^{6}-1} > \lim_{|x| \to 1} \frac{t^{2}(t^{-1})}{(t^{2}-1)Ct^{3}+1}$ 12.原极够等价抹了114下1 Līn / n²+jn = līm n / 1+ / n³
n>00
tertifi t=in - X2 フタデン = Um (ラ: Sring) 81117) Vim tim Sin(t2z)=0. · lim Sin(z./n2+jn h>0 (4) Lim (05x-053x) han 29 STM (2 41/41) tim/t- | START 2 //m -25Tn7X·STMR(-)) = Vim Sin>X. SinX lim 245in (15 42+1) = Vim 24 Sin 221, lim [lim (cos x.cos x.co =2 (b) Um tanctanx) Vimtanx ; Vim STNX . GOSX > Vim tanctanx) tanx =1 tim Lim (tos Sinzax.) Vim tanctanx) - lim lim (Sinzx . Zh X70 Vim to sinctanx) 1-13) LTM-(X-1x=1) $X \rightarrow 0$ X· cosctanx) 南沙 $=\lim_{X\to+\infty}\left(\frac{1}{X+Jx^2J}\right)=0.$ = Lim tanx x+0 X 2.71 lim \(\sin \) ak \(\sin \) \(\text{X+k} \) \(\lim \) \(\frac{1}{2} \sin \) \(\frac{1}{2} \) \(\text{X-+00} \) \(\frac{1}{2} \ lim & ak. Sin x+K < lim & ak. 1x+n = 0 = līm (X-1) SINZX X->1 COSZX LIM SOK·SINJX+K=0 $= \lim_{X \to 1} \frac{x - 1}{\cos^2 x}$ 13x-€/=t

4.若极限存在,由海程定理 又川 lim cosXn存在、其中、 ₩70, ∃NOGN*, S.t. NONO AXN/>M. in lim CosXn=CosXo R1 (05 Xn - 005 Xo) = | Sin Xu+Xo. 2 Sin Xu+Xo Sin Xn-Xo S ZSIn Xn-Xo S Xn-Xol & Vim COSXn = COSXO 3>1. Xn-X. BP Xnc Xo+E 又 HM>0 JNOEN*. S.t. n>No XnフM > Xote 八不成立 小极限存在 5. lim (1- 2a x+a)x $= \lim_{X \to +\infty} \left(1 - \frac{1}{x+a}\right)^{X}$ $= \lim_{x \to +\infty} \left(1 - \frac{1}{\frac{x}{2a} + \frac{1}{2}} \right)^{2a} \cdot \left(1 - \frac{1}{\frac{x}{2a} + \frac{1}{2}} \right)^{a}$ = e^{2a}= e² 1. a= 8.设存在无法大益31 ×n 4M7Q = NDOO EN*, St. NEND XI = XIII) Nin fcx,)=A Yfcx)为周期回数 fey)= limfcy)= limfcy+nT)= limfcx)=A fcx)= fcx+T) fcy)=A. HXER+ JYECO, []