```
東工大 2005/發期
 (1) log NT = log N+ NlogT = N( \frac{log N}{n} + log T), lim log NT = - N & I lim NT = 0
                    ly NT = 2 log N+NleyT= N (2 log N+ log T), lim log NT = - D & I lim NT = 0
(Z) (1) lim 5 m
                   (1-1) T=106t, Sm=1+2+...+m== = m(m+1). Im Sm=V
                   (1-11) T= lakt. Sm=T+2T2+ ... + mTm
                                                                        -1 75m=72+273+ ... + m7m+1
                                                                     1=00 st. Sm=0. Um Sm=0.
                                           UCTCI akt. (1) +11. lim 5n = 1/(1-x)
                                       -1<T<00/t< fin |mTm |= lim m(r) = 0 +1 lim mTm = 0 = tits lim 5m = (1-T)2
                                          Sm = L_{m} \left\{ -\frac{1}{(1-L)^{5}} - \frac{mL}{1-L} \right\} + \frac{1}{(1-L)^{5}} = ML_{m} \left\{ -\frac{1}{(1-L)^{5}} - \frac{1}{(1-L)^{5}} \right\} + \frac{L}{(1-L)^{5}}
                                                                                                                                                                                                                                               \lim_{m\to\infty} \left\{ \frac{1}{(1-T)^2} \right\} = \left\{ \frac{\Gamma}{(1-T)^2} \left( -|<\Gamma<1 \right) \right\}
\lim_{m\to\infty} \left\{ \frac{\Gamma}{(1-T)^2} \left( -|<\Gamma<1 \right) \right\}
                                         7>10/2 - 1-7>05). lim 5m=10
                                        T<-1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 
                                         T=-loret. Sm=M(-1) ( + + m)- + +1) lim Sm は存在したい m>no
                      (ii) him Tr
                      (11-11) 1 = ( obt. Tr= + (1+2) + + (1+2+ + + 1) + 1
                                                                             -) TTn=T2+ (1+2)T3+...+ (1+2+...+12)Tn+1
                                                                             (1-T)T_n = T + 2T^2 + \dots + MT^n - \frac{1}{2}N(n+1)T^{n+1} = 5n - \frac{T}{2}N^2T^n - \frac{T}{2}NT^n
                                                                               T_{N} = \frac{1}{1-r} S_{N} - \frac{r}{2(1-r)} N^{2}r^{N} - \frac{r}{2(1-r)} N r^{N}
                                        r=voct. Tn=0, lim Tn=0
                                       UCTC | act (1) L') lim Tn = (1-T)3
                                    ICTCOALE lim | not | = lim not | n = 0 +1) lim not = 0 toto from In = (1-1)3
                                       = \int_{\mathbb{R}^{2}} \left\{ \frac{1}{(1-L)^{2}} + \frac{1}{(1-L)^{2}} + \frac{1}{(1-L)^{2}} - \frac{5(1-L)}{L} + \frac{5(1-
                                        7>108t - 7 >0 t) lim Tn = 10
                                        TC-lact - T >0+1 lim To は存在しない
                                        lim Trittate Lt. 11.
```