Sin - na napy cyna ha (*) Sn z Sn. Sn, KODETO Sn z Zlak, Sn z Zlok = ((+)) (a, 6,1+1a, b2+1a2b1+1a2b2++--=\$101-p7apy-cynang => Sn2 = Sh1. Sn1, K. Sn122 1 anl, Sn12 1 16kl 7. K. Z. an u Z. bu ca ada ex. => 15n'19 nzi u 15n'19 nzi (a orp., ie. 7 4>0 & 954 & M => Sni = Sni = Sni = M. M= 12 > 1 Sni gn=1 e oup. => -5" = 5" = 1 = 7 (5" 1" = 1 e oup => ((A)) e cx. => (t) e adc cx. Sn2 = Sn. Sn (-xx) S 5=> · CYMATA ha (+) e S. S. 32 anbm=5.52(2 an) (26m) 17. PHILLIPPE PEDULUL LE PEDOLE - CXOULUOUT LA PONTEPHIE NO Dell Hera Gincx Incl & Ded. by ECR 1) Thasbane, re d. \$p. 1 fn(x) fn=1 e cx. b T. Xo, and dic.p 1fn(xo) yn=1 2) Kastane, le di dynkymonama promya fin (x) gn=1 e cx. by E, ako 4 x f e, ditp. { fex) fn=1 e cx. 3) Kastanie, le di p.p. { fn(x) fn=1 e cx wom a-ta f(x) by E, ako 4 x f e, limfn(x) = f(x) : fn(x) fn=2 e cx wom a-ta f(x) by E, ako Trumep: 2) + n + N: fn(x)=xn-1, (x + (-1,1) , +x + (-1,1): 1, x, x, --, x 1-1 = lim x 1-10 614 1-1,1) 3) fn(x)= x n-1, f(x)=0 x 1-1 (-1,1) .. X0=0; fn(0)=2nn0=0 fn(0)===0 $f_n(x) \xrightarrow{c} f(x) = f($ 4 x ∈ ε, 4 ε >0, 3 N= N(x, ε): 4 n > N=) [f(x)-fn(x)] < ε Del Kasbane, re diep Africa) e pabhonepho ex rom fix) bry & arco V e so, I N= Me); V x FE, V n > N=> fn(x) = fix) m fr(x) = 0 = x + E 1 fr(x) == 0

```
=1 Hera fix) =30, T.E. 4 870, 7 N= P(E), 4 n7 N=>
      Ifo(x) | = = (+xFE)
      suplface) 1 = = < E
   => lim sup [fn(x)]
El Thera suplfn(x) hos 0 - 7 HE >0, F N= N(E)
    KniN=> [fn(x)] = Sup[fn(x)] CE
    Strump: 1) fn(x) = x n-1 (=1,1) 0
          x n-1 = 2 0 ? ( paleman ex. ru e?)
          1 = Sup 1 x n+1 = 50
        2) x n-1 1-99 0 , x60000 0 cq c1
         xc-[-9,9] xm-1 = 9n->0
Credcaphie: fn(x) = j(x) (=> suplfix)-fn(x) = 0
AKO Jn(x) = J(x) u FCE=>
   1 n (x) == f(x).
   0 = sup | f(x)-fn(x) | = sup | f(x)-fn(x) |
Princep: x" = 0, nodero (0,6] c(-1,1) -(-9 a 6 2)
 7 0 < 9 < 1 : [a, 6] < [-9, 9]
Dyl neka jn(x), (nEM), Dep bry ECR
    Zifnix) - функционален ped.
Des Kasbame, le p. 2 sn(x), ompédenena bay & e:
    1) ex. b T. Xo, ako Titop. Zifn(x) e cx.
    2) CK- bly MM. E, auco & X F E, J.T. P Zijnlx) e CX.
Strung: Z'x", (-1,1) è cx.
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3) Kastane, le fox) e cyna ha o ped Zifox) bry E, ano pediegata
om napyanhang cyna Sn(x) = Zijnk) e ex koujix), tx t E

```
J(X)= IJn(X)(XFE) LXEE,
     4 EDO, 7 PZPIX, E): 4n 5 PZ) [J(H)-Jn(x) / ZE
Dej Kasbarre, re jex) et d. p. D. J. fn(x) e pabrion. ex. Kom f(x) bly
     M-6000 & and Sn (x) = 3 (x), T.e. + E > 0, 7 H= M(E): + N > 10->
                        1 f(x) - Sn(x) ( E ( + x + E)
     Hera Z.fn(x)=f(x) by E. Oznazabane epez zn(x)=f(x)-Sn(x)
MI Pynkymonanhuarpa Zjn(x) e pabhomepho (x. B/y E =>
                            limsuplen(x)!
Zijn(x) e pabhou. ex. (x) Sn(x) = j(x) (=)
       Sup | f(x) - Sn(x) | === 0 (=> sup | cn(x) | === 0
Troumep: 2 x n-12 -1 x + (-1, 1)
             i) E= [-9,9], O< 9<1
               2, x n-1 e palon. ex: 6/4 1-4,9]
               1(x) = 1-x | Sn(x)= Zi x K-1=
              +(x)-Sn(x)- 1-x -1-x -1-x -1-x -1-x
             => 2 x m e pabn. cx. b/y 1-9,9]
            (i) \sum_{x=1}^{\infty} x^{n-1} + f \in pabh. ex. b/y(-1,1)

\sup_{x \in (-1,1)} |\nabla_n(x)| = \sup_{x \in (-1,1)} |x|^{\frac{1}{2}} |\nabla_n(x_n)| = \frac{(1-\frac{1}{n})^n}{|1-(1-\frac{1}{n})|} = n(1-\frac{1}{n})
              SUP[[[]] > n(1-1) = +00
++(-1)) = 1 (Maker: no(+))=
            => lim sup | tn(x) | = +0 = 0
               2 x n-1 rue e pabnon exoverige 6/y (-1,1)
```

In Phonepui na Banjeprypace! AKO 3a p. pED II fn(x), (x F E), 7 ZI an, (an 20) : 4 n E N: Ifn(x) = an, (+x FE) => Zijn(x) e avc. pabnon. cx. 6/4 & (PÉDET OT CYMO OT MODYNME) Deflikasbane, re Zijn(x) e adc ex. biy E, ako e cx. biy E d. ptd, Z Ifn(x) 8-60€ Tolx)= Il fulx) In Ifor(x) eim sup/ [n(x)/=0? | \(\n (\x) | = | \(\frac{2}{x = n + 1} \) Zun e cx => Zuu z (S-Sn) ===== 0 & SUPIZN(X) / E II az => I fn(x) e palm. Cx. Biy & = Z x n-1, E=[-9,9], O<9<1. 18. Emenerus perobe-paringe u arract na examera. 29/ Apyricy per or leuca (*) Zi an(x-x0)", KEDETO ant R, thet ulog Xotk, ce napura crenen per. Bracinoci: Alo xozo zo Zy anx" BT. X=X0 CTENERHURIT PEO (*) e CX. (1) II an (x-x0) mon. t=x-x0 (2) 20 ant AKO (1) e CX. b T. X = S CT. PFO (2) e CX. b T. t = X- X0 ALO (2) e CX. 6 T. t=> OT. PED(1) e CX. 6 T. X= t+X0