SUBJECT: مل معادلات فيرخول روس مركة تعطيري مات mbom igi[a,b] with fa) git il gj: - il com οβο με fax = il sail, «ε [a, b] (sai f(x) = x. Oh f=n-r = f(n)=r = f(n)=rجرد: به دست ا ویل (عدد ا مرد) عدد است که رست معادله ی = دست ا الى رىسىل براى مى الدىمادل بورلى اي داد بادادى ي for = · = = g(or) = g(or) = g(or) = fil goslem) ایج می درست ایمه ما به میراند زیرا دانستایس 1. Je (a) Bis Roil (a) in der in der in der $\forall n \in [a,b] \longrightarrow g(a) \in [a,b]$ Igial (- (K(1)) god ~ which sto Kit (100. Y

= 9(2m) -> |2m-2my / (E f(00) =0 -> g(00) g(x) Ily said St. Cox lun och = x few = Yx - Ye y = 7 x -n fa) 1 - 1/e). [0,1] -> fc) = - Y <. rn-re= = · g(u) = r e · g(u) = · ln(rn) 1 The = re-re 5 γe = 1 n → e = 1 x → - n = ln + n → n = -ln + n

q(a)=-ln(=n) -> [0,1) -> Hace[-,1] . (n(1)

> - < Yu < Y lno (ln fr (ln f

9(n)= xe-n O_> tre [0,1] -> - (ncl ->-1-nc.

-> 1 (e" < 1 x = 1 (Y e" (Y e" (Y

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$$2n+1 = \xi e^{-\chi} = n = 0, 1, 1, ...$$

(P)
$$g(u) = \int_{n+1}^{n}$$

 $g(u) = n^{r} - 1$
 $g(u) = \frac{1}{n^{r} - 1}$
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0(21) = xt-1 tx 1(x(1)) 1(xx) · < 2 - 1 < V. X. 9 (n) = 1 15x 54 (26 ET -> Y (n+16 10), 15 n 16 16 $\Rightarrow \frac{1}{+} \left(\frac{1}{n^{r}} \left(\frac{1}{r} \right) \right) + \left(\frac{n+1}{r} \left(\frac{r}{r} \right) \right)$ (P) 19/001 = 1/1/100 (1/10) (1/10) 9Cn+1 = John+1 2=1 €=1-10 en+1= 11-1-0=g(xn)-g(x) $=g(c_n)(x_n-x)$ en+1=8(cn)(en) en = g(cn) x (cn cna lun cn = a S schonden

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Dan Ent = lun g(cn) = g'(lun cn) = g(x)

n > 00 en f n > 00 m > 0 | en+1 = g(x/en | x-n+1 g(x/=. g(2en) = g(x) + g(x)(2n-x) + g(d) (2n-x) g(xn+1)-g(x)= g(x) (nn-x) +g(d) (nn-x) g(Cn) (nu 1-x) = g(dn) (nu-x) - x (dn (nn Cn+1 - g(cn) = g(dn) (en) lan nn = a souldisti, tant in je : mos Enus, P2/1 (en = 1 - x, en = 1, -a significantes nos lent = c . Soutous of cont