## sayssa coomleme förnet sonster

- 1) den = x=7 danksigonom Xo= 3 basknyig degai sein 3 ondalikh Newton-Raphson yontemi ile conontr.
- 2) x 5m(x)-1=0 Lankleminn kolono 15x52 anligueda 4 on Jalikh 5257-noteta i teksyoni île belunoz.
- ao = 0, bo = 2 ish 3) & (x) = x. sin(x) -1, 2 andaheholorah Solonor. bisection violeni ile

4)  $U = \frac{\sqrt{5}}{n} \left( \frac{8 \times H}{B + 2 \times H} \right)^{2/3}$ 

n	S	B	71
-	0.0001	10	2
0.035	0,0002	8	f .
0.020	0,0010	19	1.5
0,015	0.0008	24	3
0.030	0.0003	15	2-5
0.022	0.0		

U degen hesorkering, Bu topbyn gone

couce: 0.3624 0.6094 2, 5053

5) Miller netodonen diger metodanden aventiglen melerding

- 6) 2. Sonys stefferson's yantemple X3=)
- 7) X ty2 -2x-2y t1=0 sistemn (0.5, 2) ich X+y-2xy=0 xlewtor-Raphan ile rusi 1 contre harrlessin12)
  - 8) substroken itersyons, Regula-Biss, Secont le moller medetlern recognication 11,

Errele Sowler 5) 4. 50 N icon a) verilen bir 5x4 dipude in madriste depoleviniz b) U digerini hesaplaten br Algoritma yazınız U \*ln( Mo - mxt) - gxt-V=0 (0) fortsigon verliger. Be Santiguedes U= 2510 L Mo = 2,8\*103 m= 13.38 LO 8= 9.81 a) [0,100] aralgada to=45 baslenenca deger TWN I)  $t = \frac{u}{g} \times \ln\left(\frac{m_0}{m_0 - m_* t}\right) - \frac{v}{g}$ II)  $t = \frac{m_0}{\dot{m}} \times \left( \frac{\exp(\frac{g \times t + V}{u}) - 1}{\exp(\frac{g \times t + V}{u})} \right)$ t=g(t) sabit noteta troasyonne hongisi gransalter (soruca granser) neda ! 200mi I) yahunsamor (g(E) <1 Earti SAGLENTO 2 I) 70.8779 Sonowa yalensar b) [0, 100] aasen to hangs omlited took obje olmidigini 10 adim uzunugunda (h=10) hesalaton on algoritma yourn, c) to=45 ign Klewton Parhsan He

d) to=0 } bislingia desorter ion lot harrasiya ill

ti = 100 | moller metodo ile rasil gotalar (3)

ti = 45 | Adim Adim anlatiniz:

Delsi

e) to=0 3 bestorn degeler Fin Regula-Falsi td=100 3 ve secont garters she result strow Adim Adim anotine

8) [0, 100] orasinda i) Bisection gartemi ile 2 itersyon ii) Stefferson youtemi ile 2 itersyon elde estinia

11) Linear almoyer derelem sistemler sein selst notet stuckyon she klawter-forhson yorkenlern karz destiring.

12) fex1= x2-5mx-5 fanksyon 14n [-3,35 armismed between to rember took olar adultar between to