10-12-2021 An 1 21 fix) fight Integrabilitate Rieura un YA-1 B=XX x < x= b) Lie An: (a= x0 < x1 < x2 < x3 < ··· < x; < ··· < x; < c An it divisione of intervaluen [a, 6]. Prim natura divisitario An vain intelege munditude care hepresiona cer mai mare lungiture de interrale partial al divisioni Un; 11 Ant = miles | x; - x; - 1 vous consider n'un ornteur de punets interme diale associat d'viziubili An Si EL XII, KIJ, I'E IIN File Ty = {(+1) = P2 | a = x = 6; 0 = y = f(x) = non ellowa dustell x = a m/x = b: the hunder on a pleciale out mai male alia multimic plane ty de mua: Asia (17) ~ (x1-40). \$(31) + (x2- ×1). \$(52) x - - + (xi- x1). \$(3)+ + - - - (\*n- \*n-1) + (Sa) = franca alistat dregtungte water on lease (xi, xi) of inttime fret Luna den urwalere dient se un wreste ser una 

sextimile Fundade y: East -1 Rx este integlecte Diemann pe [a, b] dact si mm mai dact exista un minate heal i em preplieta tea ca abicate an fi milat de dimeriu hi (An) nom ale Pini [9,4], de haluca 1/1 1/1 -> a si abicate de fini [9,4], natura // In // -> o or avicable our fi' or secual de punche instellable gé E Exis, xij, assurei vibul carlspunsatar at murelar siemann (of (t, 5:)) ente convergent n' Grunda au ente univilue non I. Municipal I se un mete integlale riomanne se a eni f re [a 1 ]: j = lim Jan 17 [ ] n' ne noteda outfil: j= styled x Dorive functie integla line to la, the Early with the Early lines (2) Instignata despirate a nover function of ende un unwer kal (en semmificatia aria de sut Gof se (a, D) aple depoetable de indéglate néde finite (ophivoitine) or luit care este a tuncife (a lace est functio, care sufficient de els prints - reaustante eleste de function integralale Riemanne Place f: Sa, BJ-TR ente counterwei pl Ea, BJ a Luner

feste sweg la Ente (R) pe Ea, BJ, a Luner & ente

De sach forte mano town pe Ea, BJ, a Luner & ente 3 f: En sy -th Mte integralina Lieurau pr [a/b] daca à un mai duct numerlina unestelar seté de déseantémentate este févorté non ca muit numertatrité (conteniul em Lesesque) Teorena Leibnit - Newfon Riemann Hie f. Early - ik a functive pl Earl. Atuner of care advinted for phiwitine pl Earl. Atuner penten and exphiwitine for all core relation: Sa XXI.dx = F(x) = F(b)-F(a)

(20) Jack f: Early the ende invaggla Cola (1) p [a/6] of feel to per said, a fundi on forfered de 1,0 1 pari fig: Earby-912 minut integralate MEa, b) of first girl to Earth) = 5 Start. 20 7, So girldr. (4) have f: Ea (5) - ER mill in ReglaCale per Ea ( 5), adamer (71 m, M on m & fixien weesath) is m(b-a) & stexible (matylinine) (3) tack f: East out ontegh. He East M CF (2,1)
atumer feat swelch. He East M (C1) in Ja FIHIDE = Ja FIHIDE + Ja FINI DE ( plajmetate) de aditionte le fatai de internatul de internation 6 Sa fixida =0 m /g = -/s Teoherne de mode. Lave f: Earst-ir ente un cantéman de saist atunné exista en musique un peract se saist ant sunt:

peract se saist ant fel sucht:

Salutax=(b-a).f(s) = 1 - 5 fixide = f(s). (6) facil f: Ea, 5] +12 cete courtime pe Ea, 5], a tima. 1 Sa FIFILK (= Sa / FOF/ ). dx ( madwhil in segrator. ende mer mit de est integlate midululuis

Phenia dientatra si inscriptable.

The filth a simether can from in periodice, de gerinade Tro

Atomori: 5 att Toride - 5 ferrar, by a E. R. Exeditate fact f: [a, 5] - + it oute integlable

pl [a, 5], atumer of each integral only pl ance
whereal [c, 6] = [a, 6], tack of soft cantimul
in particul, news paper of play dx. Lunctif a distribute a plimitimeter man functité candlune. Lunesta F: Ea, SJ-IR your F(4) = 5 x fitt st, pt Wxc[a, b), ende a phimutica a but on prapéelatea cà Franzo. (la +1+1 dt) = flx) en derivatele constimil, afunct function of the F(4) = [ VCH f(t) dt ente dens tente petant) n + 1x1= f(v(x)), v(x)-f(u(x)), u(x) ractode de calcol jenten integrala definit 1: En 155-4 the ende in Aegra Cula Freman N redunte

1: presuntent to Sa 15.

Sa feel dx = Freshor = Front (2) Formula Leibniz - Newton paintine F me calculata en metadele plexentate

= 4 (Pas-las-las) = - 100 = - 100 20 1 Of the dr - areany to area to the first (3) Jy Vx 9 = en/x+ Vx ol/ - en/5+4/-ln/4+ V+/-ln 7 Fit tig: Earl -102, derivable, on derivatele continue Atomi - Jo fix1. g'(x) Ax = f141. g(x) 6 - 1 g'x . g'x dx EX OF X MMF dx = I \$14= x = 1 \$1 | x = 1

g' | x | = 10 | n x - 1 g(x) = 5 | n | m x dx = - 000 x. I = - x.cdx/ = - (36 caxdx = - (0-0) + nime/ = - 1 In the graffent function for x -211. Amia (14) = 521/ 714/1/14 \$120, x=11, x3=211 14(A) = { x. w/wx, x = { (1/3/1) Atia Ty = [ x 10mx . dx + [21] (- x 10 Ux) dx = Ia+ Iz

In= So x n'm x dx = -x col x / + mm x / - - (11-11-0) +0= 11 1==- [ x. minxdx = -[-xcdix ] + mm = | ] = + (211.1-11.1)+n of Ix + Jz= 71+3 11 = 411 (ua)

Meta-sa & de renewolare de navia lulo

Softución u'ixid x = 5 (16)

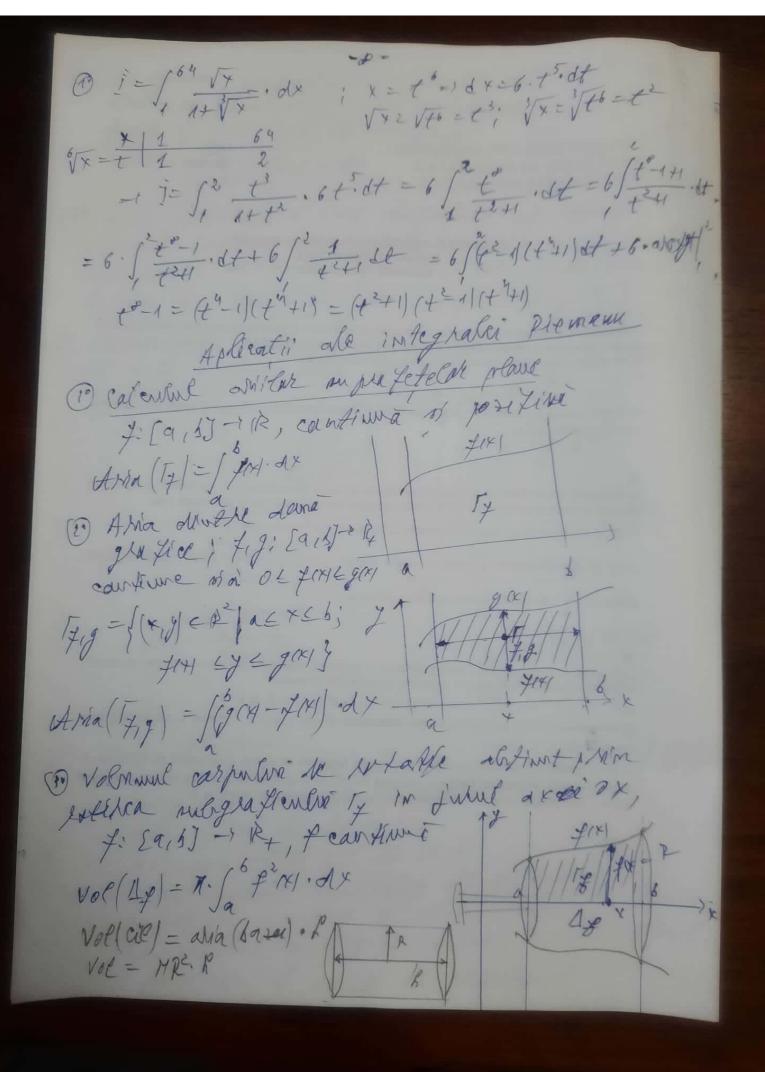
Ja une = t = 1 y'(x/.dx = dt | t = u(x) | u(a) | u(b) O St min, x. corx dx Ulkl=ninx=t=1 u'lklodx=chxodx=dt X - 1 = 1= 1 th. dt = +5/1 = t=nimx -1 1 = == == (1+1) == == = . Ji=J' x dx = 1 2x dx = 2 50 x 1 = 1

U(x)= x = t = 1 1/14/10dx = 2 x dx = dt t= x 0 1 = = andgt/ = = ( notg1-anchog = +, # - | = ] 12 = 5 x +1 . dx; 414= x +1=+ => 4/14. dx = 4x3. dx=60 12 = 4 5 44 dx = 4 52 dt = t=x"+1 1 = 4 Cut/ = 4 (lu2-lu1)= 4. la2 = J2 ) -> I=I+12 = # + 1 lon 2

soutate: Deamintim umatoarche integratato n' inspari ( at ent muthor fatide ) 25 41-a1=- 41a1 afunci ja fixidx = a. I lasari Tillen 01/2. / 1 minx ( dx = 2 / Eminx dx = 2 ( - edix / 2 - 2 (0 - 1) = 2 That f: S-a, nJ-rk integrabile to part of your formattine fata My formattine fata My affective for a fixed x = 2 for fixed x = fa at ealenlese ] = \( \frac{1}{(x^3 + x \cdot n)n^2 \frac{1}{2}} \), dx

\[
\frac{4(x^3 + x \cdot n)n^2 \frac{5}{2}}{-1} \]

\[
\frac{1}{4(-x)} = \left( -x)^3 + \left( -x) \cdot n)n^2 \frac{1}{2} - \text{x} \cdot \frac{1}{2} \c =(-1) +14 = - +181 == & p = 12 innfall Ja finixi). dx = Sucas fits (utit)/. dt u(x)=t =1 x = u'(t) => dx = (u'(t)). dt; t=449 (419) 418) faountland, u luje ch'ui or den valute, la fet n' u I de se noteaza en un foresta care delayease and integralor. Le aplice, de regula incarent function exponential, irationale, trigonameteres



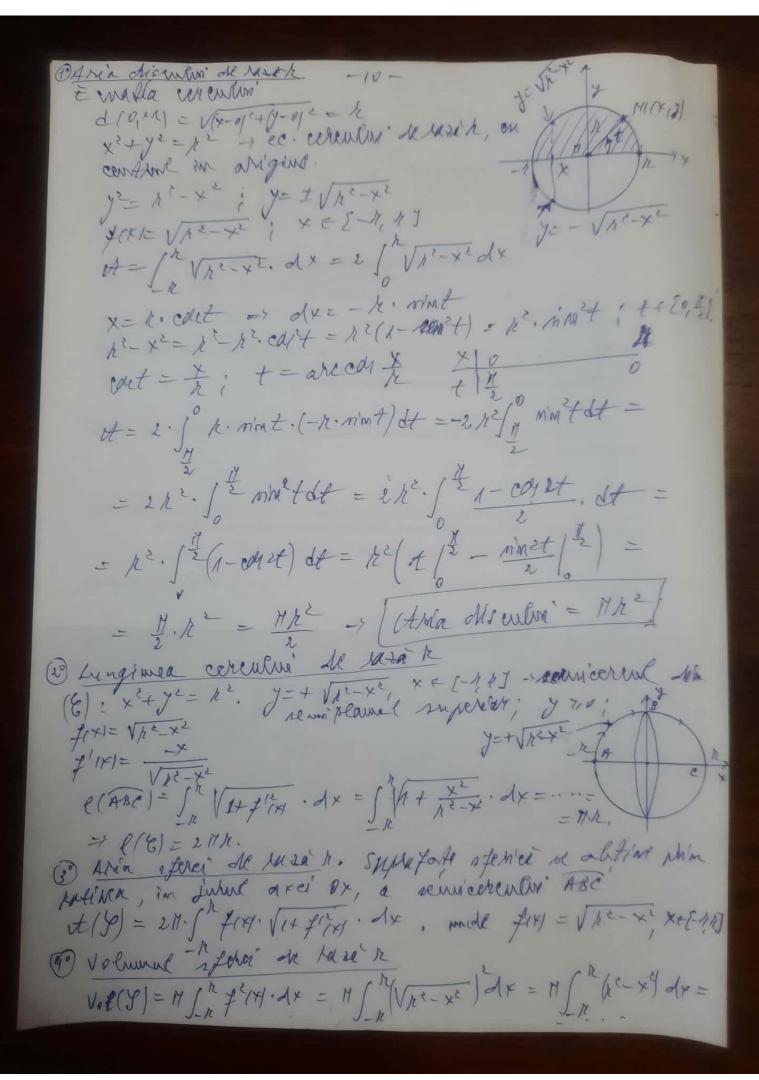
delivata canti une - 9- in regime "

finnte si ente data de in regiala: "

P(x) = 18 1 14 x12 ... dx l(f) = [ V st x'2x1 . dx (5) Arin beferre a unci implafete de ratable actions a rother im june ax of ox a grafferent unit function desir ata cautimo. Co carldratele centhului de glantate \ Sent 2112-6
ale u nei unitérior plane de farma

g non 7,9:[a,b]-in conquire

g non 7,9:[a,b]-in conquire \* = Ja x. grady Ja x (+141-914) dy Asia (Tg) Ja (714-9(4) dx to get Hidx 1 Sa (7214-944) dx Ja - Jania (1g) 1 6 8C41- 914/dx Aplication @ Sà re calculate - aria disentin de la sa r - Energiance cerculini de rasa 17 - una sterri de le se re - Volument 1 febre de la 20 h - coardowntell centrulus de grentate ale anplatetai annagene a rennimisenti de usi laure en centrul in angune, nitrat in remiseaure progeniar it axelas de caarelanase.



3) coaldo-nate le centrului de grentade ale en pretete amont el ser en pretete anno de ser en pretete anno de ser en pretete en present de ser en present con com si decentral de ministrale en en deser en principal de grentade al acestra meniodise ne principal de axa ex, deci x = 0.

The first de present de ser en principal de ferent de formation de ferent de formation de formatio