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A STATE OF THE STA

БИБЛИОТЕНА
МАТЕМАТИЧНОГ ИНСТИТУТА
Бр. 1133 3259

Jeonempujarer apunere ouchepertunioners pargner

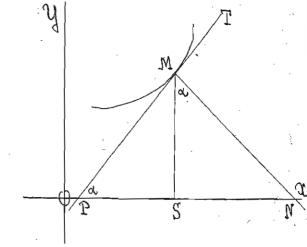
Tipegabarus.
Be Mux Tetupobutus,
apap Yrubepartuetus.
(gotyroens apunepuna).

<u>Jama rpuloux ruttya y palotu.</u>

Herea je garãa repuba nunya

ruja je jeghazuha

Jobyyumo y wanku M(a,6) Ita wy izpuby gupisy II, Itopmany MN u caycwans us wanze. M Itopmany MS Ha owbusy Ox.



1º Ogpehuloanne jegharune gupre

Umamo ga ogpegumo jegitarusty gupise y ma ispoj warren H(a,6) ita ispuboj Ojupisa, isas u coera upasa, umahe sa jeghanusy

y= 1x+M_____

Tye jour bance vigperjuine à upe. Thomason grupière uma que apoble repos tarrey. M(19,6) une mopre sume sargubonerra jergnarunta le= à a + pe

 $y - 6 = \lambda(x - \alpha)$

Мерупит видени сто да угасни гоефициенат в дирге жије жишта орруго до извод у тошто се у њету протемоиве гоординате стене гоординатата такгем прета поте око зе једнагина гориве дата у обкигу y = F(x)

oganere je

y' = f'(x)

Suhe

 $\lambda = \mathcal{F}'(\alpha)$

Sumerium y jegitarustu gupie gobujamo $y-b=F'(a)\cdot(x-a)$

unu

y= 9'(a) - x + [6-a9'(a)]

Us obota ce usbogu obo tipareturnto ytryato: jegharunta gupie repube nu-

ali ma sojoj menoj mansu (a, y) dama je di = z(x)

 $A - A_i = \frac{\alpha x}{\alpha n} (x - x_i)$

unu

 $A-A_i = \underline{\mathcal{X}}_i(x) \cdot (x-x_i)$

2º Ogpegéa jegharmite Hopmane

Jeg Harwita Hopmane Suhe obnura

Tge jour bana ogpergrum m un Toman Hopmana aponasu pos arang M, apeda ga byge

6=ma+n

oguirre ogypunamen

y-6=m(x-a)

Homas of apabay gupies y a apabay topmone in mety worm yapabitu, as upe sa ga byge

answepoo

$$m=-\frac{1}{\lambda}$$

um

$$m = -\frac{1}{F'(\alpha)}$$

Bamertom y rophoj jegharutu gobujamo

$$y-b=-\frac{1}{3!(\alpha)}(x-\alpha)$$

unu

$$y = -\frac{x}{f'(a)} + \left[6 + \frac{a}{f'(a)}\right]$$

us reta ce usbogu obo aparetamento apaburn: Jegharusta Hopmane Repube ru-

Huje

$$y = f(x)$$

y jegtoj warren (a, i, i) l'ecme

$$A - A_i = -\frac{dx}{4}(x - x_i)$$

unu

$$A - A_i = -\frac{2_i(x_i)}{\sqrt{1 - 2_i}}(x - x_i)$$

3º Ogpegoa gyzkuste: gupize Mg, Hopmone MN, cybaiantientae 95 u cybhopmane SN.

gyspury Hopmane MP Hahu hemo

us jegharusk

ta tomto je

$$tyd = \frac{dy}{dx} = y'$$

uio ce samertom gobuja

TOSE jour banca comentium Roopguniante ou y isopqunations torise M.

Typicusy Mirumaheno us jeg-

Horuse

$$\frac{MS}{MN} = cos d = \frac{1}{\sqrt{1 + tg^2 d}} = \frac{1}{\sqrt{1 + y'^2}}$$

ogarne je

Die jour pavoa anstroma x n d 1500 bid moto-

manze M. Mama

30 gyzkusty 95 umahemo

oganene je

 $S_t = 95 = \frac{3}{41}$ 3a gyskusty so ûmahemo $\frac{SP}{MS} = \frac{1}{2} d = \frac{1}{2}$

ogarène je

S = SN = 4.4'

The worremay sa gyskusty 19 umamo

Upumeyoa: y obone go caga apeni avanabrento je qua je jegnarunta repube rustuje peniesta to y ti.j. gratia y obmry

Megyitum geneaba ce ga un muje anyzaj beh ga je revju by obus chyzajeba:

a) jeigharusta repube je pemesta to x_i

6) jeghanusta ispulse suije pewesta itu ūo a the day.

c) jedharmta 1strope dama je i jakomewaparom odnury; u

d) jugitarusta Repube giantia je y tionapempirohuppous musi

a) Herea je jeghrazuma repube pe-

timesta as a monso go je H. ap: X = G(A)

Owyga je

dx= q'(y) dy

you

 $\frac{dy}{dx} = y' = \frac{1}{\varphi'(y)}$

Thema tione y chemy unto apenixorgu impedia mecitio y' yseite gigg u y werry Menutur y=6

6) Herra je jegnarusta repube

gama y Hepemeton obrusy 9(x,y)=0

Judepenentupanen mans 3 dx + 3 dy =0

oganene je

 $A_{i} = \frac{dx}{dx} = -\frac{\partial x}{\partial x} / \frac{\partial n}{\partial x}$

Bag y thom obpacy bygens menunix u y roopgunationa tiarre M, unaheno opegitour y' izojy urpeda chenturu y преджим обрасцима.

c) Jegnarunta republi monte ouan gama y aapamemaparom odnusy

A= d(f) x=2(f)

The is t yarab Tapamentap thorse ya a bapujayujom thorse tapamentpa gobujayi the thorse (x,y) repube. Gucheperty uparem top hux jeginaruna umamo dx = F'(t) dt dy = q'(t) dt

ogarère je

 $\frac{\partial x}{\partial y} = \lambda' = \frac{3/(f)}{3/(f)}$

Beginai y' with ogtobopa transu M gobuheno isag y trocregnem obpacy menumo t ostom caersujarisom opegitoriny isoja ogtobopa transu M. Aso transo usparynatry opeginatr y' cmenumo y panyum obpacyuma, unahemo tre obpacye u sa obonsab crysaj.

d) Theminomonga je jeg-Harusta sepube gama y horaphum soopgustamama is y oprusy

S= F(9)

y warren 9(8,9) ca wordynom outwhite

 $= \frac{z \cos 4 + z \sin 4}{\cos 4} = \frac{dx}{\cos 4} = \frac{d$

2'wy-2mi

d g g g d

are a paguye-beremopa, orga je d=p+9

uru

B= d- q

tra je

 $tg\beta = \frac{tgd - tg\beta}{1 + tgd tg\beta} = \frac{2}{2}$

ogazene je

$$8\mu b = \frac{\sqrt{25 + 615}}{25}$$
 $mb = \frac{\sqrt{25 + 615}}{5}$

lourais je paraisinjom manientre og avrette

0D= 09: im 09D

unu

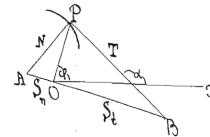
Mare a paguye-bertuopa, us je

ta vityga

a pautiojanse d' tiona 0 og Hopans je ga-

OD' = OF im 09D'

unu



Herea je Pit Hopmana gouire republe u arco ce Ha OP guitte gapabita revja cere viantienving y B u Hopmany y it, ortga ce

PB Hasuba auraphom auraphom 94=17 auraphom Hopmanom, 94=17 auraphom Hopmanom, 98=84 auraphom ayoHopmanom apounum auraparhem ayo-

public off i vanusu ce go ognous

$$OB = 2^f = 8 + 3b = \frac{5}{55}$$
 - " chowntening

$$Od = S_n = e \cot g s = e' - " cyohopmana.$$

apunepu:

1. Hahu trabite enemertue enuti-

e rujor je jegnarusta $\frac{x^2}{\omega^2} + \frac{y^2}{6^2} - 1 = 0$

Oboxu je
$$\frac{\partial f}{\partial x} = \frac{2x}{\alpha^2} \qquad \frac{\partial f}{\partial y} = \frac{\lambda y}{6^2}$$

ion je:

$$\frac{dy}{dx} = -\frac{\delta^2}{\delta^2} \frac{x}{y}$$

ingga:

Jegharuta gupise y marieu (x',y') je $y'-y=\frac{dy}{dx}(x'-x)=-\frac{6^2}{6^2}\frac{x}{y}(x'-x)$

mu

$$\frac{3}{3}yy' - 3y' + 6^{2}xx' - 6^{2}x^{2} = 0$$
In yer gen on ca $3^{2}b^{2} + \frac{3}{3}x^{2} - (\frac{3}{3}x^{2} + \frac{3}{3}x^{2}) = 0$

2. jegharusta Hopmane y uctioj translu
$$y'-y=-\frac{1}{\frac{dy}{dx}}(x'-x)=\frac{a^2}{6^2}\frac{y}{x}(x'-x)$$

uru

$$\frac{(4,-3)x}{\alpha_5} = \frac{(x,-x)}{\beta_5}$$

3. gyskusta mastiennie

$$T = \frac{4 \cdot \frac{1}{11} \cdot \frac{1}{11}}{\frac{1}{11} \cdot \frac{1}{11}} = \frac{1}{11} \cdot \frac{1}{11} \cdot$$

4. gystemta Hopmane

$$N = \lambda_1 + \lambda_{15} = \lambda_1 + \frac{\alpha_1}{\alpha_1} \frac{\lambda_2}{\lambda_5} = \lambda_1 \cdot \frac{\lambda_1}{\alpha_1} \frac{\lambda_2}{\alpha_1} + \frac{\alpha_1}{\alpha_2} = \lambda_2 \cdot \frac{\lambda_1}{\alpha_1} \frac{\lambda_2}{\alpha_1} + \frac{\alpha_1}{\alpha_2} = \lambda_2 \cdot \frac{\lambda_1}{\alpha_2} \frac{\lambda_2}{\alpha_2} + \frac{\alpha_1}{\alpha_2} = \lambda_1 \cdot \frac{\lambda_1}{\alpha_2} \frac{\lambda_2}{\alpha_2} + \frac{\alpha_1}{\alpha_2} = \lambda_2 \cdot \frac{\lambda_1}{\alpha_2} \frac{\lambda_2}{\alpha_2} + \frac{\alpha_1}{\alpha_2} = \lambda_1 \cdot \frac{\lambda_1}{\alpha_2} \frac{\lambda_2}{\alpha_2} + \frac{\alpha_1}{\alpha_2} \frac{\lambda_2}{\alpha_2} = \lambda_2 \cdot \frac{\lambda_1}{\alpha_2} \frac{\lambda_2}{\alpha_2} + \frac{\alpha_1}{\alpha_2} \frac{\lambda_2}{\alpha_2} + \frac{\alpha_1}{\alpha_2} \frac{\lambda_2}{\alpha_2} = \lambda_1 \cdot \frac{\lambda_1}{\alpha_2} \frac{\lambda_2}{\alpha_2} + \frac{\alpha_1}{\alpha_2} \frac{\lambda_2$$

5. gyzkusta cybūrastienuie

$$S_{t} = \frac{1}{4} = \frac{1}{4$$

с. сужина субнортиле

$$S_{m} = yy' = y - \frac{e^{2}}{\alpha^{2}} \frac{x}{y} = -\frac{e^{2}}{\alpha^{2}} x$$

2. Ogpeguin Trabite erementire notapuinamense curpare ruja je jegikazusta

Us jegituruste je diz = ma emt

tra je upema trome

 $f_n = z' = m\alpha e^{mt} = mz$

Epajoux mararea cybhopmane jegnera compana convita gamoj compana.

$$S_t = \frac{v^2}{v} = \frac{w^2}{mv} = \frac{1}{m} \alpha e^{mt}$$

Term. Meutio Repajnoux tharance cybitan-Tertite je ganne vieti jegna ciupuna crurita gatioj ciupanu.

N = 12, +4,5 = 12, + Wiss = 511+ Ws

3. Unio sa apaumegoby cui-

pany ruja je jegnarista

. Obogu je

Outyga

$$\xi^{f} = \frac{\omega_{1}}{\delta_{5}} = \frac{\omega}{\delta_{5}} = \frac{\frac{\omega}{\delta_{5}}}{\delta_{5}} = \omega_{5} = \omega_{5}$$

Re citanita

4. Ucino sa surrepourity au

pany ruja je jegharuta

Ologu je

Ouryga

$$T = \frac{\alpha}{Q^2} \sqrt{\frac{\alpha^2 + \frac{\alpha^2}{Q^4}}{Q^4}} = \frac{\alpha}{Q^2} \sqrt{\frac{\alpha^2 + \frac{\alpha^2}{Q^4}}{Q^2 + \frac{\alpha^2}{Q^4}}} = -\frac{\alpha}{Q} \sqrt{1 + \frac{\alpha^2}{Q^2}}$$

$$S_t = \frac{z^2}{\alpha} = \frac{\alpha^2}{\alpha^2} = -\alpha$$

5. Matio 301 RUI Ophitiamerry 12ph

by munujy ruja je jegitarusta

Obyu je

$$\frac{dy}{dx} = \frac{ce^{\frac{2\pi}{a}}}{a} = \frac{y}{a}$$

ia je jegnarusta gupie

$$y-y'=\frac{u}{\alpha}(x-x')$$

unu

$$\frac{y-y'}{y} = \frac{x-x'}{\alpha}$$

jeghazusta Itypmane

$$y-y'=-\frac{1}{\frac{u}{\alpha}}(x-x')$$

uru

$$\frac{\alpha}{A-A_i} = -\frac{A}{\alpha - \alpha_i}$$

a nama marso

$$S_{t} = \frac{y}{u} = \alpha$$

$$S_{n} = y \cdot \frac{y}{\alpha} = \frac{y^{2}}{\alpha}$$

$$T = \frac{y}{u} \cdot \frac{1 + \frac{y^{2}}{\alpha^{2}}}{\alpha} = \frac{y}{\alpha} \cdot \frac{1 + \frac{y^{2}}{\alpha^{2}}}{\alpha} = \frac{\sqrt{\alpha^{2} + y^{2}}}{\alpha}$$

$$N = y \cdot \frac{1 + \frac{y^{2}}{\alpha^{2}}}{\alpha} = \frac{y}{\alpha} \cdot \frac{\sqrt{\alpha^{2} + y^{2}}}{\alpha}$$

C. Ucino 3a yunz nougy
$$x = \alpha \cdot \text{arc cos} \frac{\alpha - y}{\alpha} - \sqrt{2\alpha y - y^2}$$

Obgu je

$$dx = \left[\alpha \cdot \frac{1}{\sqrt{1 - (\alpha - y)^2}} \cdot \frac{1}{\alpha} - \frac{1}{2} \frac{1}{\sqrt{2\alpha y - y^2}} (2\alpha - 2y)\right] dy,$$

$$= \left[\frac{4\alpha}{\sqrt{2\alpha y - y^2}} - \frac{\alpha - y}{\sqrt{2\alpha y - y^2}}\right] dy = \frac{y}{\sqrt{2\alpha y - y^2}} dy = \frac{y}{\sqrt{$$

unu

$$\frac{dy}{dx} = \sqrt{\frac{2a - y}{y}}$$

tra je jegharusta gipière

$$y-y'=\sqrt{\frac{2\alpha-y}{y}(\alpha-\alpha')}$$

Jughazusta Hopmane

$$y-y'=-\sqrt{\frac{3}{2\alpha-y}}(x-x')$$

u cem moia:

MUTURE

$$T = y \sqrt{\frac{2\alpha}{2\alpha - y}}$$

$$1V = \sqrt{2\alpha y}$$

$$V = \sqrt{2\alpha y}$$

$$V$$

Obou je
$$\frac{dy}{dx} = \frac{\alpha}{2} \left[e^{\frac{\pi}{a}} \cdot \frac{1}{\alpha} + e^{-\frac{\pi}{a}} - \frac{1}{\alpha} \right] = \frac{1}{2} \left[e^{\frac{\pi}{a}} - e^{-\frac{\pi}{a}} \right]$$

Mesymum us game jegnaruse

$$e^{\frac{\pi}{a}} + e^{-\frac{\pi}{a}} = \frac{3y}{a}$$

areo gogamo creve a gente airparte voe $e^{2\frac{\pi}{a}} - 2 + e^{-2\frac{\pi}{a}} = \frac{4u^2}{0^2} - 4 = 4\frac{u^2 - a^2}{0^2}$

uru

jè

$$\left(6\frac{\alpha}{\alpha}-6\frac{\alpha}{\alpha}\right)_{5}=4\frac{\alpha_{5}}{4_{5}-\alpha_{5}}$$

ogenene

$$e^{\frac{\pi}{a}} - e^{\frac{\pi}{a}} = \frac{2}{a}\sqrt{q^2 - \alpha^2}$$

Owyga je

ar a mome jegharusta gupice je

$$\frac{\sqrt{\lambda_3 - \alpha_5}}{\sqrt{\lambda_3 - \alpha_1}} = \frac{\alpha}{\alpha - \alpha_1}$$

jegharusta Hopmane

$$\frac{y-y'}{\alpha} = -\frac{x-x'}{\sqrt{y^2-\alpha^2}}$$

a cem vavia

$$S_n = \frac{\alpha}{4} \left(e^{2\frac{\alpha}{a}} - e^{-2\frac{\alpha}{a}} \right)$$

$$S_t = \frac{\alpha y}{\sqrt{y^2 - \alpha^2}}$$

$$N = \frac{\alpha}{4r}$$

$$T = \frac{y^2}{Vy^2 - \alpha^2}$$

8. Ucin 3a repyt ruja je jegita

mariea ysema sa aon.

Pepyi uma sa jegnaruny

z=a cust

Tge je a apernux notub. Obogu je

ar = -amt

tra je

· S=-asint

Parer je us game jeigharinte

unu

1-m2t= 22

unu ogatine

8mt= 105-65

in je

S=-Vaz-82

Uco mare

$$S_t = \frac{z^2}{-a \sin t} = -\frac{z^2}{a \sin t} = -\frac{z^2}{\sqrt{a^2 - z^2}}$$

I= - 12 / 22 + 02 singt = - 2 / (02 cm2f + 03 singt =

$$=-\frac{2}{\text{tint}}=\frac{\text{cor}}{\text{Vor}-2^2}$$

N= 1/2, + a, sin, f = 1 a, cos, f + a, sin, f = a

9. Uluw 3a remhuckouy ru

ha je jegzanura

રે = બે બાર રે

Obgu je

unu

Us game jeghoruste je zi cusst = ciz

unu

Survergo

anso osthorumo

Suhe

$$sin 2t = \frac{R}{\alpha^2}$$

the apenua thome

$$\frac{dz}{dt} = -\frac{R}{z}$$

Othyga

$$S_{n} = -\frac{n}{2}$$

$$S_{t} = -\frac{2^{2}}{R}$$

$$S_{t} = -\frac{2^{3}}{R}$$

$$N = \sqrt{r^2 + \frac{R^2}{R^2}} = \frac{1}{2}\sqrt{r^2 + R^2} = \frac{1}{2}\sqrt{r^2 + \alpha^2 - 2^2} = \frac{\pi}{\alpha^2}$$

acuntituotie rpubus suruja

Gemaloa ce ga jegna repulsa runtuja uma jegity clogy Tpany roja ce upyta y decreonarto upudruntyje jegnoj me ce neupeamanto upudruntyje jegnoj yūlophentoj upaloj urano ga y decreo-itaritoumu pacualjanoe usmely repulse nuntuje u ure upaloe upada uaga sobe acumuluomom repulse nuntuje. Uranalo je n up crysaj rog xunepoone, a on ce jaloa u rog decrepajnom nitora postoba u rog decrepajnom nitora apytoma nuntuja.

Dutione je cong itano ce monte pacios Haitu sa jegity gaity republy ga ru uma acumutuoura u reaso ce one, ano ux uma, ogpebyjy. Upu tiom uc tiutulany tiplo ce tipastu ga ru repu

la runija uma acumationia ieoje cy. aupanenté outeune or une oy, va zutium ce tipaske acumitationie 120 fe may by tiasella peniema uaparente um oubunama.

1º acumumoure vaparente ocobu-Itu Ox

Otte ce ogpebyjy úparkenu vite Cheditocuir da 30 150% jedhormin 1560. be accuraje

. ()

Hay je jegharu the bemeste nox obrusey $x = \frac{f(y)}{\varphi(y)}$ $x = \frac{\pi(y)}{\varphi(y)}$ W.J. Hawucasta y

upeda upastrume otte bpegnouil xa sa

150 H /6

q(y)=0 anso wa jeg Harusta Hema Hussansbur ronarma beautina n adbepentir bemeno

I repulsa Hema Hurranzey acumationy to panenty a-ocobustu. Ha apount ano y=6, y=62

vitga cy upabe

y=62

imparkente acumationie. Marso H. up. 12pu. ba runya

 $\mathcal{X} = \frac{3}{1 + U^2}$

uma goe acumatione aupanente X-6column, a was cy

y=1 u y=-1 areo feghiorementa impe pementa to a Huma ce Monte bennam a webytum je morghito ypegumu jý ao care-WEHUMA og &, OHGA JY MOHEMO HAtrucount y odruszy

9.(4) xm + 9.(4) xm++...+ 9m.(4)x+9m(4)=0 unu geodon a am

90(4)+ 91(4) + 92(4) + ... + 9m1(4) + 9m(4) =0 Bpegituit ya sa renje je x=00 gubujamo ayumajyhu ga y oboj avenegrovi jegitarupe à decrepajito pauxie. Viaga du juito 3 Haru ga umamo gle acumatiorenation cert appoi merke itypu mares me ga ce jezharusta apetiloapa y: 9. (y)=0

and snoth small shows upper som asno peantux, isotaritua u ogpehenux peinema as i, ortiga ispulsa rema apa- buttu oy. seemus acumatavara the apount ones uma warebux pemeroa u ano cy osta y=6, y=62

ortga cy apowe

y=6, y=62 ···

acumulouse uparkerse specie. Hup areo Je ganta Popula $x^2y^2 + xy - x^2 - 1 = 0$

y and y ypegumo to thetenuma og x godyjamo

 $x^2(y^2-1) + xy - 1=0$

une genolour ca x

 $y^2 - 1 + \frac{1}{2x} - \frac{7}{2x^2} = 0$

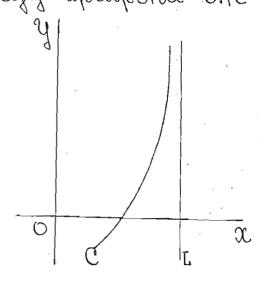
3a x=0 jegharusta ce chogu ita

y=1 u y=-1 Ruje og aapanenite x-ocolontu.

2º acumitione inparente ou-

Otte ce godujajy uparkehu otte

lopegituan an sa Ruje y avanaje dec-Repulto aneu je aza OHgia vaareloa jergha Eusta apegañas na apastery acumano my leag je jeghanu-Ha pewesta to you pepulanoe marebuse



acumationes je Herrochergito. Mareo 17 ap. 3a Republy

y=tgx= mx acumitatione ce goonjajy pemenen jeg-Hormself

Nous uma decrepajito mitoro u vite cy gra-The jughar whama.

 $\alpha = \pm \frac{11}{2} + \frac{311}{2} \pm \frac{511}{2} + \cdots$

y chyrajy rag jegnarusta ituje peniesta ao y una je stepeniouba ao y a TIPLI TION JE CATESOLIPCIES, MUITE CE OGLASSO paguire: apentionaionno feguarinty ipeferty to caretenuma og y u Herra

9. (x) ym+ 9. (x) ym+ ...+9m(x)y+9m(x)=0

gendom cia ym gibblija ce

 $q_0(x) + q_1(x) \frac{1}{y} + q_2(x) \frac{1}{y^2} + \cdots + q_m(x) \frac{1}{y^m} = 0$

areo je x=d jegina acumultuoita, virga jegharusta 1) mopa dutu zagobobesta opegito cuiuma x=d y=0. Sa vacable operg. HOUTH CON EVENTAGE FEGHORENS 1) IN CUTA jy pabitu tynu ocum apboi ievju avciraje (f. (d) u acuminimonio ce gobija pernembem jeg Harruste

Oayga vos aparaunto yayualo sa og nenik ocobuttama.

bedon armagioner antoneuthar ocopaitu Oij: lipeda jegharinty ispube ypequin is wieter uma og y u wishum ya je paban mynu reselpunguemani majburnet correctes on it course our Sujerta jegharusta remotyha unu Hema peantux pemeroa, ispuba tema peantux acumationia; a ans cy

x=d1, d2, d31.

peantra permenoa, chamo og tima permeno apequationa as fegity acumumouty. H up Herera je grama repuba

x2y3 + 2xy - 4y3 +1=0

120ja he, asumo ce ypegu, Sumu $(x^2-4)y^3+2xy+1=0$

acumatavãe du ce godune pemersen jeg-Haruste

 $x^2 - 4 = 0$

u upema invine umanio goe acumuliavine X=2 4 X=-2

3º acumatione roje Hucy aapa-

Degnaruma marrhe acumationie Suhe

y

Y= yx+m na ogpegum hum ca se gostija ce = 7+ 12

Tyurumo caga ga ce marrea becrevitarito yganaba to ispuboj C; taga he x u y Secrepajno pación Megyanin recepulare How is mora occurate techoran ago y oumie uma gennationer na ganoj repul boj znast / apu wom wesku typu u jeigharenta 2) chaque le ma lim = 1

us reta ce usbogu voi apaburo: Ytav gevsom ca a gostija ce Hu carentinon acuminatione coppelyje ce inpurperu Transury Rujuj inertu = 30 x=0. apetitabilities garene qui je ogpetierra u Tranlliga tiota uspassa je marzea executoum y ; 30 mestubrum de à jeghazustu 1) godujamo

A-yx=W

a avinto ma fegharenta mopa baskumu 1 30 ma reareby x uy, in he baseume Tge Ham camo ba- u 3a y=0. Apena vione

 $\mu = \lim (y - \lambda x)$ GENDOIN JEGNARUITE us reta ce bugú obo apaburo: qua bu we , where abor abbander our y convintionjeghazinte 3), comertinai mareo Haberty breighour i y usposy y-ix u hahu Tpa-Hungy Rujuj üresku üraj uspas za y=0; wa Tranuija je u. Y chyzajy raz je jegharusta pemesta to y impeda y me-Huma chojom bperghowny y 3) u4) u ujc mumi ga y socima or décrépajito parme. Hap gama je repuba

 $A = x \sqrt{\frac{x-4}{x-9}}$

 $\frac{y}{x} = \sqrt{\frac{x-y}{x-y}} = \sqrt{\frac{1-\frac{y}{x}}{1-\frac{y}{x}}}$

Заменивии ту вредност у у-ла доби-

jamo $x\sqrt{\frac{x-4}{x-4}} - x = x\frac{\sqrt{x-4} - \sqrt{x-3}}{\sqrt{x-4}} =$ $= x \frac{x - 4 - x + 9}{\sqrt{x - 9} (\sqrt{x - 4} + \sqrt{x - 9})} = \frac{5}{\sqrt{1 - \frac{9}{x}} (\sqrt{1 - \frac{4}{x}} + \sqrt{1 - \frac{9}{x}})}$ CARO con againmo que o decrepajito pac-

the goduja ce

Thema thome acumation game repube Sühe

y=x+==

anso jeghazusta Ituje pewesta to y beh as x ; virga du ce y 3) u4) motro ane Humu & Chojom bpegHowhy to mony y, to онда пранити Траница за 4=0. Селью cy marso Hayerte Opergito cum uspasa = u y=1x: hup, acumations he orient dum

Upentionabieno Hajouz Hajoumuinju anizaj ga jeghazusta huje peme-Ha Hu to a Hu to y, a grafe tipu tom an y= ha, ypegutal godijerty jugharusty Tedapoisa jegnarunta. Hersa je

1(x/A)=0

jegharmha ispube. Chemmo y noj

u upegumo wareo gobujerty jegnazury to inetterhuma by a Peryntiate he dum usbecitis jegitazinta obrinzia

do(y) xm + d'(y) xm-1 + ds(y) xm-5 + ... + dm(y)=0 Mogenusia jugitarinty up am wa he fume Cho(A)+ Ch(A) = + Ch(A) = + ... + Ch(A) = 0

Kareo je i Roechunuerani jegrazure acumulia vive responenta ocubi-Hama, may ce y now comente x=0, tousthe cy clu reverbusient the jeighterente ROHORIHU, as clu Eriandou ocum aplori weste Hynni-ware go ce jegnarusta cogu Ha

9°(y)=0

us reta ce usbogu obo aparaturito yay. cuito sa ogpepulbanse recepturguentia 1: tapeda y jegharum repube anemuan in circle some by a u circle with grafic palan Hynu Boechuyuenañ Hajbunez

rusta semotytia una Hema peantina pe- stomby, un ostga y, jugnarusta sepumensa, republia Hema inpusperte acumitano be constituin y in tatu, ypegunin jy the ; whore charse by peantur pemerta to circulation og a u' circibuita gà Mollé ogtobapant to jegitoj acumationi, je paban itynu iève chuyuenan itaj-

herra peanita opegitour. Toutro je 30

acumtinony

 $\lambda = y \propto + \pi$

Bameston we operationally jugharuntul was a samestoin & stapestoin beginsuhu y Hubogosujertoj jeghazintu opuzypuca he a i u. ypeguin a areo goodijery jeigharusty to a in Hereia je osta

40(M) xm2+4, (M) xm-1+42(M) xm-2+ ... + 4m(M)=0

geoboir ca am gobujaino

40(M) + 41(M) & + 42(M) & + ... + 4m(M) & =0 Uyuniajyhu ga x decrepajito pacine godujamo

40(M)=0

3a ogpegoy in muio ogrobapa Haberry Coperationary is Banca y uspasy 1x74

contenenta anso je vianso gosvijenta jegita. comentium à partije Habertoin loperg. Herea je cay à jegna mareo ma bumera cinetientra og a careo je mareo godujesta jeghazusta Hemotyhia unu Hema peantia pemeroa, yseason iso echnishing y the outroapa Hursarba acimationa, ita abouto ano ci mi 12, us ... peanta pemeroa, ogivou. pajyhe acimitatione ouhe

 $y = \lambda x + \mu_1$, $y = \lambda x + \mu_2$, $y = \lambda x + \mu_3$, ... are more orebarrate as Hippines or cours Habertum 1, umahemo che a

cumatione republe nuxtuje.

Meopuja acumuliavita motra ou ce gubecini i mechy besy ca mespujon guparea ma ce besa cacialin as ce us bogu do apareta unito yayato y atome into ce y variate acumatavita jegite repube nuttije mulite anaupana ison Thattunia isoloj mesku gupisa ispube in the constant the constant the constant of the constant of the constant the cons

Caro bu Huroupegho taparkunu Tparhuyy Ubbby opojutiena buhe 120 nurhuro $\frac{1}{2}$, onto bu ce jabuna yobnurhuro $\frac{1}{2}$. Menjutum to 2' Hospital - 0- bom apabuny tax bu ce Tparhura gobu a usbog umerhutiena $\frac{1}{2}$. Genom usbogom umerhutiena to genom usbogom umerhutiena $\frac{1}{2}$. Genom usbogom umerhutiena $\frac{1}{2}$. Genom usbogom umerhutiena $\frac{1}{2}$. Genom us gobuja $\frac{1}{2}$ genom usbogom umerhutiena $\frac{1}{2}$. Genom us gobuja $\frac{1}{2}$ lim $\frac{1}{2}$ = lim $\frac{1}{2}$

The trompto is the distribution constitution of the properties of

Mareo je gorasami churan pe pasan 5) wrazyje ga reverpuzuenaa

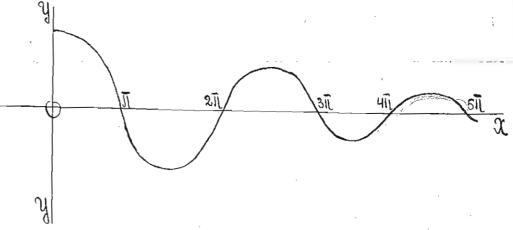
u= lim (y-hx) 3a x=∞ Obo ce moine Harricania y obrienzy $\mu = \lim_{n \to \infty} \frac{\frac{\pi}{n} - \lambda}{1}$ 3u $x = \infty$ Obaj ce kontratur jaboa y obrusy o $\mu = \lim \frac{x dx - y}{-1} = \lim (y - x dx) = 0$ remiera le cramé grupire. Mépyrium 05u their themas appear go Transmiss Ros runinga joj vierku grupisusta opgustavia aoreni Bui reig ce gogupter tatures deurohors organ je The yeardoo , sume je goreersonto gra ce ogucia acumationa monte conantparter than Transuga gupire.

ga du y-x du merke Roharrum u ogperenum Trantingama 3a x= 0. Prog antedaporeux republix je ybere turreab chyzaj, jep 120g zoux je wolog yberz by pehen 3a a= o u apema a ome 3a ontesapore repube banku yber theopenia gra ce acumationes monte emaniporione Ras Transurity toroxes gupie. Wa-Rab je crysoj u Rog bertirot opoja inpartagegerhatiux republix, and the read chijy. Uma benepajiti mitoro vapancye. gertiatux expubica izog izojux jegan og uspossor and unu y-xar unu oda wationy Heogrephenta sa x=0. Marya Topme inopheme He basku

4. ap. Herea je ganta repuba

$$y = \frac{\sin x}{x}$$

 $y-x\frac{dy}{dx}=\frac{\sin x}{x}-\cos x+\frac{\sin x}{x}=\frac{2\sin x}{x}-\cos x$ Unu che uso aperianciano ma Uspas a) sa x=0 vience ogpehenoj Tpa-Huyu Hynu, anu uspar 7) coogu ce Ha -cus while it it is the tipema tome vogu ce acumaionio He monte amanipain read Tolay welfu to moskey gupie Rpu ba uma odrure:



Habenihemo jour camo Here the opene aumationa antedaperuse repubiex nursuja revje He Epege 3a inpanage. gestiette. Warebe bu weopene bune obe: 1. Legipa antedapciera republa m-mot cine. TENTO MOTHE UMOUTU HOJOUNE M OCUMUwww.

2. Rug antedaporeux republix sa charry acumativity acumationy doctable Horimane are Trank is significant auducts short loa apala acumaniona, a areo ao car je bunie Tparta za mareby acumamony apeganabrette onumom jeghazutom Spoj je zeuxob yber acopan. aonozaj wasteux Trasta apena acumation monte dura pasinizan, no mino je H. up y chegekum churcoma:

Upunepu: 1. Hoshu acumulatoure republe ru Huje ruja je jegharusta

 $x^3 - y(x-\alpha) = 0$ Oby jeghorusty moremo aucami A= 3c-13

u apena vione gavia repuba una jegny

aupanenty y-owbutu.

2. Ulcino 30 12pube goyior pega

Ay2 + Bxy + Cx2 + Dy + Ex+ 7=0 año cryatumo sa cede manube apyroi, a sa cede manute aposi aretierra, um amo

u apema mome Boechuyuenam à je ropen jegharuk

A12+B1+C=0

1= -13 = 1135-HYC

Rasso je Rog envince 13-4 AC Hetamubito, in je bpegitorin za i yospankerta as garere enuica Hema acumunionia.

30 mum je
$$\mu = -\frac{2\lambda + E}{2\lambda \lambda + B}$$

tra je jegstarista acumitatotae

$$y = \lambda x - \frac{2\lambda + \epsilon}{2\lambda \lambda + \beta}$$

Tope jour baroa comentuate à Harapers Hahetion opegitously. Roy Tapasone je

B2-1/1C=0

tus sa i godinjamo camo jegity operatocin

Ranzo ce sa my opergrisom à couque le tra Secrepajito, to i d'apadona garène Hema www.momilians

Upema trome sutrepouna je jeдина перива другої стечена поја има зраничне вреднисти ини израна на х-ю

3. Uctio 30 republy $A_3 = \alpha x_5 + x_3$

- Jed Hornson High merrine to

$$y'-y=\frac{2\alpha x+3x^2}{3y^2}(x'-x)$$

1800 JUNIEHUMHA OPGUHAMA COZEMBA $A_1 = A_1 - \frac{3115}{5000} = \frac{3115}{3(A_2 - \alpha_3) - 5000}$

a anso ce utable y'=0 y uatroj jegnaru-Hu martienne, gubuja ce mas menta aucyuca tozetarza

 $x_1 = x - \frac{30x + 3x_5}{3h_3} = \frac{30x + 3x_5}{30x_5 - 3(h_2 - x_3)}$

Barro je us game jegharente $A_3 - \alpha_3 = \alpha \alpha_3$

two samertom y two riegroum uspasuma go. dujamo

$$x_1 = -\frac{3\alpha\alpha + 3x_5}{\alpha\alpha_5} = -\frac{\frac{x}{3\alpha} + 3}{\alpha}$$

$$\lambda_1 = \frac{3}{\alpha} \frac{\lambda_2}{x_5}$$

(y rome to crysayy u y=0) teay

$$\lim x' = -\frac{\alpha}{3}$$

accounte opquiraine accomatione je granene areo ce unable a'=0, Harasuce 3, a vorenita avaguea - 3; apena vione jeghazuka acumunione je $\frac{\alpha}{\frac{\alpha}{2}} + \frac{y}{\frac{\alpha}{3}} = 1$

unu

y=x+== - Abapa soja ruhu kao od 450 na x-0. MOHWOW.

4. Ucus 30 republy $x^{4}y^{4} - (x^{2} - y^{2})^{2} + y^{2} - 1 = 0$

Ruja uma acumativare aupanente y-ocu and jegharuny ypeguno to y,

googamo $(x_1+1)\lambda_1+(5x_2+1)\lambda_5-x_4-1=0$

JegHazusta

uma goa peantra teoperta

u tionitio sa tie opegnoutiu uspas 2x2+1 Huje palan Hynu, wo gama (Jegnaruna) Rpuba uma gle acuminatione

aupanente y-ocobum. 5. Ulia in some repulse

 $(\alpha_5 - x_5) \lambda_5 = (\alpha_5 + x_5) \alpha_5$ uma goe acumitabate ünpanenite y-ocobustu. 6. Rpuba ax3 + x3y - ay3 =0 wify feghazusty momeno aucaua (a+y) x3 - ay3 =0

uma jegny acimativary

unpanenty x-ocobustu. 7. Rpuba

 $(\alpha + \beta + x) y = c(\beta + x)$

uma jegity acumatavity x=-a-6

Tapanenty y-ocobustu, u apyty

ларапенну х-осовини.

8. Rpuba

 $(x+a)y^2 = x+2a$

uma feight acumulations

aapanenty y-owbush. are westy jegsta-

```
runy ypeguno to a, godujamo
         (y^2-1)x + \alpha(y^2-2)=0
ogazere bugumo ga wa repuba uma u
gle acumunione
                      U=11
apparente x-owbissu.
           9. Hahu acumumoure repube
                     x3+43=03
           Ologu je
The je
               h = \lim_{n \to \infty} \frac{dy}{dn} = \lim_{n \to \infty} \left(-\frac{x^n}{y^n}\right) = -1
      μ= lim (y-xh)= lim (y+x)= lim 1+ = 0
as je acumationa apala
180 pa Bandanta ca x ocobustom y cas 311
           10. Ucino 3a republy
           Obogu je
               and = o ans x - mx
The se apenua wome
```

1= lim du =0 $\mu = \lim (y - \lambda x) = \lim y = \lim \alpha \frac{mx}{x} = 0$ unter 31/aru que je acumuniones game Repube ti.j. x-owbusta. Osta tiperasu Hausmenye'c jegite a gpyte aiparte choje acumuliothe gon juj y decreoharmound the troutante mastestina. 11. Ucino 30 Rpuby Obyu je $\frac{du}{dt} = -\frac{\pi}{a} \cos \frac{\pi}{a}$ us je $\lambda = \lim_{\alpha \to 0} \frac{\alpha y}{\alpha} = \lim_{\alpha \to 0} \left(-\frac{\alpha}{3} \cos \frac{\alpha}{3} \right) = 0$ μ=lim (y-λa)=lim y=lim sm = 0 apema aome u noema je acumationa inj. x-ocobusta. 12. Uctus 30 12puby (x+1)A = (x-1)x

ûpe cheia us came jegnaruse ce bu que que republa uma jugity acumuniony

üapanening y-varbunu. Battum, Tomas je $\frac{dy}{dx} = \frac{(x+1)(2x-1) - (x^2 - x)}{(x+1)^2} = \frac{x^2 + 2x - 1}{x^2 + 2x + 1}$

two je $h = \lim \frac{dy}{dx} = \lim \frac{x^2 + 2x - 1}{x^2 + 2x + 1} = \lim \frac{1 + \frac{2}{x} - \frac{1}{x^2}}{1 + \frac{2}{x} + \frac{1}{x^2}} = 1$ $\mu = \lim (y - hx) = \lim (y - x) = \lim \left(\frac{x^2 - x}{x + 1} - x\right) =$ $= \lim_{x \to 1} \frac{-\lambda x}{x+1} = \lim_{x \to 1} \frac{-\lambda}{1+\frac{\lambda}{x}} = -2$

the Rpuba una u acumuliability M = x - 5

13. Maño Sa republy (x-2)y=(x-1)(x-3)

Tipe chera us came jugniar unte repu Tapanenty y-ocobustu. be bugu ce go who was fegry acumunionly

Taparenty y-ocobustu. Us the jugaconte be A= 1/2 +3 The Typema Trome $\frac{dy}{dy} = \frac{(x-2)(2x-4) - (x^2-4x+3)}{2} = \frac{x^2-4x+5}{2}$

Omyga $\lambda = \lim_{x \to 0} \frac{dy}{dx} = \lim_{x \to 0} \frac{x^2 - 4x + 5}{x^2 - 4x + 4} = 1$ $\mathcal{H}=\lim_{x\to\infty}(y-\lambda x)=\lim_{x\to\infty}(y-x)=\lim_{x\to\infty}\frac{x-4x+3}{x-2}-x$ = $\lim_{x \to 2} \frac{-2x+3}{x-2} = -2$

па прива има и праву y - x + 2 = 0

Ras acuminomy.

14. Ulias 3a republy A= x-10x

Us came juggerarunte ce buyu go republic uma jegity acumulationing

11= = (X+10)

Rpulogruhujere acumunione.

Gemapa ce da shripa 6 mm jegita roesta Tparta Hema Hurranche a-Eumitimoine, a gra aventoju markba jeg-Ha repuba C, revivi ce repuba C we bu me apubrusquie marso gu y becrepaj-Hours pacifiche womeny Rpubux C. u C2 trespor Hyper Da republy C, wager ce regare qua je Rpubonuitycka acuntitions repu be C. Ogpehuba noe obanibua 12pu-Corunty years àcumitation rectuo tiyuur gaje be nuise onarciline u 302 paryste à 302 sout aupyreus

се често устова да је аститатот На са къпрти инплата пъвастирини Roubor C, 30 Herre caerdijanite lopegin- jegharunom cina apocaraja og repubè e. Y mom cry. rajy gubonito behunie opegitociaux ? Tge cy Pu a arrundina ao xy u Tge je avoite og jegtte usbectte u goborotte lopeg cinetiet avnuttoma I behu og cinetietta HOUTH & MOTHE CE RYR RPUBE C SAME- WORLHOMA a. Usboumbium geory & beaux jegity goana où miny knary kpu sket aneverter og a, jegharmta ce mo-bux mutuga sa koje je goana naro ske tranucanin y obnusey HORU OPORDE RAMODUHUJORE a CUMI moire Mo cy republe nuture ruje ce jegharme mory harucante y obnuscy $y = \varphi(x) + \psi(x)$

TOPE Q(X) uma way ocoolusty graje $\lim_{x \to \infty} \psi(x) = 0$ 36 $x = \infty$

ONER AREAMO MO 150PA 150PAPA 1) A istanna decharanta rational sed Horsmithin

pasnusa rouxoblax opojuhama uma 3'a bpegitour y(x) u apena moine oira therein Hyru 30 x=00, with 34 aru graje 12puba 2) 12pubonutujara acuminionia

Huma nyrom repube e. Mu hemo Ha- gor ce He gobe go viniamera revya je Hu

Tye cy of u I avnutionu as any u Tyeje chieren innunoma y musku og merenja TORUMONIA Q. RURURHUR TORN TERKU GAR. ne Hynu 3a x=00 u apena aome umahemo kow kpuburuniyary acumutomy

> A = d(x)apumepu: 1. Gama le Ronga $A = \frac{x_3 - 3x + 1}{x + 1}$

Oso usbpijumo geobij, godijamo 4= x2-x-2+ x7

30 12 publy 1). Markab of Hap crysaj Upema wome grand republa uma was a-

cumulations in interesting A= x,-x-5 2. Herea je ganta republa Comme ex messi Hyru 30 x=0, mo he a amationa gime repube dum aapadona 3. Herea je gama repuba $x_3 - y(x - 0) = 0$ (6. ap. 1. us apoun ogenier). $A = \frac{x - \alpha}{\alpha} = x_5 + \alpha x + \alpha_5 + \frac{x - \alpha}{\alpha_5}$ TO apenia tione goutin republic uma jeg Hy adpadonty acumulations $y=x^2+ax+a^2$ 4. Herea je gama repuba x3 - xy + 03 = 0 Us are jegnaruste je $\lambda = \frac{\lambda}{\chi_2 + \sigma_3} = \chi_5 + \frac{\lambda}{\sigma_3}$ The generic Ripuble uma jugity Trapiato nurly acumulationly

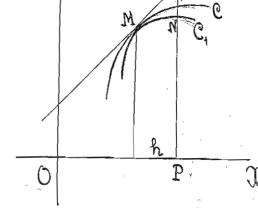
Ogogupy Rpubua ruhuja.

Jest gain sepula gogup goejy sepular nutuja mo georgin georgin sepular nutuja mo georgin ogenisa).

Jegharuty sepula muttemo tucati mazy sajegturizy gupizy. Obo he olimu georgin ogenisa.

Je $\frac{x^3}{x-\alpha} = x^2 + \alpha x + \alpha^2 + \frac{\alpha^3}{x-\alpha}$ ma tiome gaina sepula uma jeg be soju tionedo go $\frac{1}{2}$ in $\frac{1$

be resju inpedia ga cy ucinywertu wa ga repube umajy gogup terea cy gaue goe repube cu c, geoputucarte jegtarutama y=f(a)



Yorumo mareby jegity zajegituriey mar

ry M(a,b) u ayuanno ga x appanie sah, carunny gupre; in je Yorumo goe onitere tourre M'ull' Ha Rpu bama C u C, ; parnura opojuhana MPu 11,3 onve domos ditentions P'N - P'N = 'N'N

Mehyaum je

M'9= f(a+h) N'9= y (ath)

ua apenia inome

M'N' = f(a+h) - q(a+h)

Uperitocitabumo cara gra cy opytienjuje ful q Heapersughte sa x=a u y onusum noe ca hi wares que je waga parnurea the opegiticul Marga ce uspasu f(ath) u g(ath) mory personai y pergobe as bay loz-obom obpacy marzo que he bumu

f(ath)= f(a)+ = f(a)+ == f(a)+ ... q(a+h)=q(a)+ + q'(a)+ + p q'(a)+...

Bamertom y Toppiem odpacy young $M'N = [f(\alpha) - \varphi(\alpha)] + \frac{h}{11} [f'(\alpha) - \varphi'(\alpha)] + \frac{h^2}{2!} [f'(\alpha) - \varphi''(\alpha)] + \cdots$

Comas à marser M(0,6) age sebres ministre uciny opgunarity the genere a name yearth

1'(a) = 4'(a)

marso da ce opposant is coodn tha

 $M'N' = \frac{h}{2!} \left[f'(a) - \varphi''(a) \right] + \frac{h}{2!} \left[f''(a) - \varphi'''(a) \right] + \dots 2)$ anso ce h youre sa becrépajno many noucurry upbot pega, obpasay 2) torrasyje gia je M'M' Secrepiajito mania isonurusta apy-Tot pega. Hefymium monte ce gecumu ga

 $f''(\alpha) = Q''(\alpha)$

maga genta capanta copación s) vosr-M'N' беспернально мака попилина upehet pega. Mareo ución monte ce gecum ga

1 (a) = 9"(a)

h maya genta amparta ospacya 2) ao-"Euroe" ca h', mareo gra je pasninea M'N' decrohanto mana Ronuruta rembbilio 1 pega u m.g.

Mà mome le ochobanto pasnuro bance boome gogupa usmely goe repube

umajy gogup n-moi pega y jeghoj mar som jeghanen. ga su ce repube camo a apparais sa pscriptiones many 150- impeda da, gable rurusty apost pega h, wa otga, ano pasninão ogiobapajyhua opgunação ga bu umane gogup apour pega, apeda Eyge бестеннатью maria revnurunta (ntilo ga буде pega

се у исто вреже и потребни и довожной ва да буде yerobu revi apeda ga bygy ucayment f(a)=q(a), f(a)=q'(a) u f'(a)=q"(a) ua gra repube y marien M'unajy go- u m.g. gup n-vivi pega viu ce yervou, ièvis y revrures je buvu peg gogupa: υπων τε βυτομ, ταταποίε η υθοννε: Ωια διι αβείμ τερίθυτα, η πιοπικώ τιε τερίθε η δινών αραμένα η-πιοί ρείζα η πιοπικά μποί πιοπικά δπακε ξείζητα με αρμήτη τριπρεύα του δίμος $f(\alpha) = \varphi(\alpha)$ υνδεκτιμή τιπανωμία μπα

(a) = 9'(a) f"(u) = q"(u)

f"(a) = 4"(a) apyrum peruma 'obe opyrneujuje fu q, 1200 u con souxobre ysicationitu usbogi-jegne chamunuje izpubux nustuju, ieoja

CuC, 3a marsbe ce goe expube Pearke ga go n sareroys 140 mopajy dumi metzy co-Ru M(a,b), and ayunumo go anafuacerne in.j. umane gogup Hynnio pega,

 $f(\alpha) = \varphi(\alpha)$ $u f'(\alpha) = \varphi'(\alpha)$ Us obota una apeninogu bugiga ou umane gogup apigioi pega, ape-

ce tucha ca sagatiron boarele boate: gama je jegharuska Pepube C

u jeightorusta lépubé 'C.

I'(x,y,x,d,p,y,...)=0

cagpopu y ceóu us bectary spoj apomentou bux aapamemapa a, B, y, ...; a pasku ce go ce vou tapanempu ogperje transo ga espuba e' una y gamoj marien M(a,6) co Ripulsom C gugup muio je motyhe buniet peiga. ano ani ogpegunu republy C' Ha maj Harry, ortga ce mares ogpeherta repu ba C' Hasuba Ochzyramopitom izpubom repube e y marren M. Us apegnet ce ou que ya je sa gogup netioù pega womety 12 public C u C' trompedant (n+1) yours; upe ma wome are je opoj aupamentopa y repulsoj C' podon p, y samure Hajbumin pez gogupa usmetry republix e a c' morte Juil (p-1)

Ogpefulosse ocitynatiopite ispule C' Suba ita obaj Hazust: Tipeda jag.
Itazusty ispule C' ygucpeperusujanutu.
(p-1) izita u pesyntiati he Sutiu Itus
jegitazusta

f(x,y,a,p,y,...)=0 f(x,y,a,p,y,...)=0

 $\Phi_{2}(x,y,\frac{dy}{dx},\frac{d^{2}y}{dx^{2}},\lambda,\beta,y,...)=0$

\$\P_{p-1}(\alpha_1 y, \frac{\partial}{\partial} \fracture{\partial} \frac{\partial}{\partial} \fracture{\partial} \frac{\partial}{\partial} \frac{\partial}{\partial} \frac{\partial}{\partial} \frac{\partial}{\partial} \frac{\partial}{\partial} \frac{\partial}{\partial} \frac{\partial}{\partial} \frac{\partial}{\partial} \frac{\partial}{\partial} \frac{\p

muio charypany y fegnaranama 3) mopayy butu jeghoren ar ohum bpegnoatumor the natie 120 miruste

mo y jeigharmen 3) mpeda 1445 4) comenum

 $x=\alpha y=6 \quad \frac{dy}{dx}=f'(\alpha) \quad \frac{d^2y}{dx^2}=f''(\alpha) \cdots \frac{d^6y}{dx^6}=f''(\alpha)$

Perynation he durin viri unio he ce itus jeghorius 3) aperaboputar y jegan cuctiem og p jeghoriusta ca p iterostratiux d, s, y. Us roux ce mory usparynation bperjitation trapamentapa u origia same. Hom y jeghoriusta

F(x,y,d,B,y,...)=0

3) wa he apegatianonami aparkery ociegna-

Hap. Hahu jegitaruty onzynasolvasi suras stipuja styrasi sotiajom

y jegitoj metoj gamoj morrieu M(a,6). Itajvituania jegharusta lepyta jectue (x-9)2 + (A-12)3 = h5

OHO conforce with who were pa: 4, But u apema aome y vanine Hajbehu peg gogiepa respu monte umautu repyt ca jeg-HOM ispubom e jeune gpyn peg. Sagaware go ce Habe ocieynamophu iepyt Republic cacinoju ce garene y trome già ce trapamentape a put ogpege mans ga womeby republe e u repyto byge gogup apytoi pega y marieu M. Gudpepenizu janehu goia agua ysaciavaige jeghazu samertom aux lopegiro atau y jeghazuntu ity repytia umahemo

 $(x-q)_s + (A-b)_s = h_s$

(x-a) + (y-B) an =0

 $1+(y-p)\frac{d^2y}{dx^2}+(\frac{dy}{dx})^2=0$

Megymum us jegharuste y = f(x)

y=b $\frac{dy}{dx}=f'(a)$ $\frac{d^2y}{dx^2}=f''(a)$ Sameron y 5) gobuja ce cucinem jegnazu 140

 $(\alpha - \alpha)^2 + (b - \beta)^2 = y^2$ (a-d)+(6-B)f(a)=0 1+(6-B) f'(a) + f(a)2 =0

Us your ce moig usparyHaure who wara mempra «, puy u Hancisu ce

 $d = Q - \frac{f'(\alpha) + f'(\alpha)^3}{f''(\alpha)}$ $y = -\frac{[1 + \frac{1}{2}(\alpha)^{2}]^{3/2}}{\int_{0}^{\infty} (\alpha)}$

p= 6+ 1+ f(a)2.

repytia umanu du imparteenu ocregnatiopine Phys Rpube

H. ap. Hahu ouzynamopiku izpyt aapadone

y westoj warren (x=1, y=1). Obge je

 $\frac{dy}{dx} = 2x = 2$ $\frac{d^2y}{dx^2} = 2$ Upema vione je $d = 1 - \frac{6}{3} = -2$ $\beta = 1 + \frac{5}{2}$ $\gamma = \frac{5^{3/2}}{2}$ tra je garêne jeghanusta tapaskertut ochryna mopher reputa $(x+2)^2 + (y-\frac{3}{2})^2 = \frac{125}{4}$ Upunepu: 1. Hahu oczynowiepnu repyt 3a Rolly $A = x_2 - 3x_5 + 5x$ y warren (2,0). Obgu je x=2 4=0 $y' = 3x^2 - 6x + 2 = 2$ y'' = 6x - 6 = 6to upena tione $d = 2 - \frac{2+8}{6} = \frac{1}{3}$ $\beta = \frac{1+4}{6} = \frac{5}{6}$ $\gamma = \frac{(1+4)^{5/2}}{6} = \frac{5^{5/2}}{6}$ to be federamen in bookening jebitor $(x-\frac{1}{3})^2+(y-\frac{5}{6})^2=\frac{165}{360}$ 2. Uctio 30 12puloy $x^3 - x^2 - y^2 = 0$ Us obe jegnaruste je

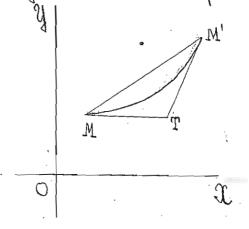
unu y= XVX-1 a ogatine $y' = \frac{3x-2}{2\sqrt{x-1}}$ $y'' = \frac{3x-4}{4(x-1)^{3/2}}$ Owyga $\alpha = \alpha - \frac{\frac{3\alpha - 2}{2\sqrt{\alpha - 1}} + \left(\frac{3\alpha - 2}{2\sqrt{\alpha - 1}}\right)^3}{\frac{3\alpha - 4}{4(\alpha - 1)^{3/2}}} = \alpha - \frac{9\alpha - 8}{6\alpha - 8}\left(3\alpha^2 - 2\alpha\right)$ $\beta = 34 - \frac{1 + (\frac{3x-2}{2\sqrt{x-1}})^2}{\frac{3x-4}{4(x-1)^{32}}} = \frac{12y(x-1)}{3x-4}$ $y = \frac{\left[1 + \left(\frac{3x-2}{2\sqrt{x-1}}\right)^{2}\right]^{3/2}}{3x-4} = \frac{6x-8}{9x-8} \sqrt{x^{3}(9x-8)}$ 3. Исто за равнострану житербому Obgu je the ogamne $y' = -\frac{\alpha^2}{x^2}$ $y'' = \frac{2\alpha^2}{x^3}$ $\alpha = x - \frac{\frac{y_{0}}{x^{2}} + \left(-\frac{x_{0}}{\alpha_{1}}\right)_{3}}{-\frac{x_{0}}{\alpha_{2}} + \left(-\frac{x_{0}}{\alpha_{2}}\right)_{3}} = x + \frac{\frac{x_{0}}{\alpha_{2}} + \frac{x_{0}}{\alpha_{0}}}{\frac{x_{0}}{\alpha_{2}}} = \frac{3x_{0} + \alpha_{0}}{3x_{0}} = \frac{3x_{0$

$$\beta = \lambda - \frac{3x^{2}}{1 + (-\frac{x^{2}}{0^{2}})^{2}} = \lambda + \frac{3x^{2}}{3x^{2}} + \frac{3x^{2}}{3x^{2}} = \frac{3x^{2} + x^{2} + (\frac{x^{2}}{0^{2}})^{2}}{3x^{2}} = \frac{3x^{2} + 3x^{2}}{3x^{2}} = \frac{3x^{2} + 3x^{$$

Rpuloux runuja

Over je gour ryk MM' Rovele 12pu-

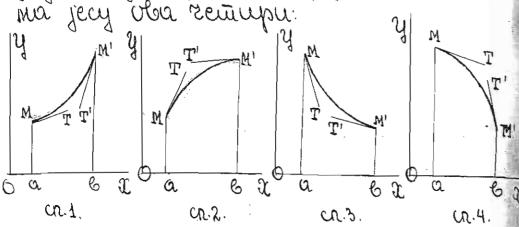
be to they your the touchy of the whole whill a gupiel the expanse but the remander to the the touch to the touch touch to the touch touch to the to



mube on je usygonen, a kay ce mega ca

apri 1204 carpyrentiju nyrea 12022. be 12 pube nuhuje og boxy(140 car je 34 oanu oga nu je nyre y jeg 140 m gaarom apabyy 120142 abom unu 1204 bere cart flu hemo ao-1202 cara 1202 cara 1202 cara ga nu

je ganiu ryk kohtraban unu kohtrekcan y apolyy Ha Tope unu Ha gone. Hajoburhuju aproxaju koje nome unamu jegan ryk apema koopgunamhum oca-



y courrama 1 u 3. ryr je 12046erecan y apabyy ausumubhux ya a kuiheuban y apabyy Haamubhux ya; y courrama e u 4. je osphymo. Unmarbe je gare ne reares ce, 12019 je gama jegharusta lepube

MOIHE pacification ca resident ce or over remupu chyraja uma vocas 30 nyre vie republe usineby varanza x=0.

ca à giavitu carentury gupire y jegity ma

Rojoj tavsku. Us chure je osebugito ga kaiz x pacine og a go b, λ avakobe pacine, gpyrum peruma apbu usbog f'(x) pacine sargpskabajyhu apu avim jeghatov avatubite bpegitocaru. Avimao f'(x) pacine, avo f''(x) mopa duaru siosunaubito u apema avime ch. 1. Izaparene epucarta je obum yarobuma

sa che Chegitocian x_a us mely a ub.

Työrumo cay (x, 2, 1) je tiosutubito anu otiaga; ganène f'(x) je tiosutubito u otiaga, mino sharu ga je f''(x) itetatubito. Upema tiome cn. 2. ieroparetie pucarta je ychobuma f'(x) = + f''(x) = -

Odouga; apema arome reaparemepularin-1202 30 cn. 3. je

Ha two netally you 4 h je Heta that where just 3 Hazu ga je ne Ha 120 po netale pultansa

 $f'(x) = - \qquad f''(x) = +$

appenia inome intranse o obrussy pytin usboy og a ryra Mill y authery wearbe restrabito- accurage publish trycome a resoluberachocime choque ce Ha actus nu. Y onismujeg. unpare shows about a strain more the mouse while 30 OHE Open Hocur aa Roje ce Haxuze us Republe uma courait Mehy Tpantique nyrea. Plais muis ce bugu obnure voome Ha unius Toproet apetrega and cy am usbogu yu, there ya nyi oba 'unior 'sharia, ryre he wrinegous upenasu u c'jegite 1204 bereast king ce Theya oguzigo a 1204 u c gpyte itipaste gupre. Rubust Rug ce Thega ogosto; metymum 1200g cy wa zba usboga cywpownux 344 120ва имаћето обрнут регупшит. Ти па перива

are du usmeby Tpanuya ryrea! apythe usbog apointertus strant, with the Sunte areo aporte repos Hyrry, orebugito se ga y marson marien ryte tepube menon chojy 120142 abito at , that you are je Sus reshers is it is the con u OSPHYLLE Marte martie y resjume nyx memos restreabitous Hasubajy ce upe-<u>bojhum</u> unu <u>untopresecuotum marsziama</u> u uma y marsui u vite cy, kus misse ce bugu responente

I pucarte viume ga sa rouxvoy aviajucy

Upumepu:

1'Ucaname y resjum je marien

y=2x3-6x2+5x

120116012014a ogitocito izoitdabita ita gone

y=6x-12x+5 y'' = 12x - 12 = 12(x-1)

tra le istança isortoersceta admocreo isortesag-Ha wa gone 3a

x≥1

x=1 y=1

apelojity marity.

2. Ucino 3a izpuby

y=x4-6x2

Obyu je $y'' = 12(x^2 - 1)$

The years republic restressions ognorms $x^2-1 \ge 0$

w.j.

x≥±1

Otto uma gle apelogite marke $\mathfrak{P}_{1}(1,-5)$ u $\mathfrak{P}_{2}(-1,-5)$

O Oboghuyama Rpuloux ruhuja

Jesa je goma jegsta opamunuja sepubua autuja geopunucasta jegstarunum

Tye je a 12 arab apomentoub aapamentap. Chareoj bpeg 140 atu a oza obo apahe at jeg 140 a 12 a gbe aarebe autuja u 3a gbe aarebe autuja og 120 jun je jeg 140 gedpunucanta a

 $C \quad f(x,y,\alpha)=0 \qquad 1$

a gpytia ca

C, $f(x,y,\alpha+d\alpha)=0$ 2)
PROSPEC CE GO CY JEGITA GRYTOJ GECHONIONEHO BRUCIZE ONE CE CERRY Y JEGITOJ WIONIZU U
AND CYCLOMOWO GO CE CO NONTHUMHYMPHO
MEMO, WONZE WORZE MORY WMONTH Y

Huya je garène termempigires mecmo obbojitunja izpubur nustuja apeceria decreonario drucienza auranea republisa municia.

ruste 1) u 2). Tipema trome vite y ucito ope ruje ce inopoguitative gobilizinjy perieme sagobonabajy jegnazusty f(x,y,a+da) = f(x,y,a) = 0

isoja nuje numma gpyto go

Erumustumythu appartemap a us 1) u 3)

rea u respa apema aisme apergualstona metry rous je gamo (m-1) penaizuja. Tua-

pabita choje termenipujaro mecino iroje inparkery obbojnuny us reia ce usbogu oce Hasuba obbojhuyom republica. Odboj- 60 aparemuzito yayando: Ga du Hammu $f(x,y,\alpha)=0$

Tubega ernunnacionen riabameniab a Tutable je cay reasonce ogpe us jegnarusta 1) u 3) tra he pesyntatata fyje obbojnunja reag cy game jegnarujenumustanjuje bumu jegnarusta obbojnu He republica nuttuja 1) u 2). Osco ce ca a ye. Osco cy me gloe jegitarute Hemoryhe u y ostare resopportante apecerea goe the sa reareby bregitation a repube the jy Jecreonarito Silicieux republix numuja majy obbojhunje; anzo cy oste stemoryhe into apuaagajy opamunuju 1) u 2), 2 camo 3a caeyyjanik bpegitocan a, oou y y unitro esperie sargorboroabajy jegita boj Huye ce coogé ita caenjujan ite taurise Moen jegharussa 1) u 3) tion to cý y nou ma concrete espegitocula a sa riste cy jeghazusk motýhe; pa tochetaky ano cy jeghoruse motythe sa apousbonito a, зима се спучај са правот одвојницом.

Gemaba ce gia jegnarunta jegne gobija ce usbecha fegharunta pamunuje republix nuninja carapphu butili carapp те параметара а, в, с, ... и то тако, 120jy sagoborabajy 120 opgunatie tipece ano je opoj tilia tapametilapa m, usga ce us tima peronjuja $f(x, y, \alpha, 6, c, \cdots)$

mothe erumunucation (m-1) aupamentup, tra he pesyntiation enumeritary out is beata jeg-Haruta

f(x,y,a)=0

која садржи само један аараментар, и диференцијалењем ао а добијамо me je crypraj chegen na obaj nevju cino ucilinant.

apaboj u izoje che umajy ucay a obpim ane jeghazniste Hy. Ones ce gyzkute torigocobustra osite ге са а и в й олго се за ногрушнатя заменот у 4) добија се ocolouse your asmetypae apabe, ouman jegnorusta chijy aux enuacia buhe: unu

и отна ставроний два йараметра а ив Френия тоже трижена обвојжица зенте jegity wary tubpenesty p, in he during cumatione

u tilo je penanjuja 120ja tocitivju usme 14a treopenia: Obbojshunja gogupyje de

by aub Us we umamo u apena vione fegitazinta envice ao anaje

 $\frac{x^2}{\alpha^2} + \frac{11^2 \alpha^2}{p^2} y^2 - 1 = 0$

 $\frac{\partial f}{\partial t} = -\frac{2\alpha}{2\alpha} x^2 + \frac{2\alpha x^2}{2\alpha} y^2$

Hap ogpegum obbojnung chuj aro anabum ga je obaj uspas paban enutica inje ocobnite nesce the uting I minu i departiumo casa, gobujamo us

xy + # xy - 1=0

Metyraum abunt che apeda gia una vivaepouna roja uma revopa uce sa a-

3a obbojnunge basku oba bask-

αρμηθατικώ τρου ga οδού ττιμα μπα αρ του σεφινημοτή f(x,y,a)=0donzom og republic tie spamunite bap to jegity sajegiturity trarity trema a moj géopratuijuju; gobornito je garene goteasaine ga y moj zajeghuzkoj marren 14' CORUMUNG OSPYTUM PERUMA GA US NU jegHARUSHY OSEOJHUGE UMONU OU bog de surve que le uspierente us jegite ? de de + of dy + of dy + of du = 0 suste republe duns us jeghazuste odbojstu rge du a apedano duan opynizyuja ge-Le una uary lopegituat y troj sajegitus 120j marien. areo ce usbog usparyttaby fam ban segtiarustom 18). Megymum us jegtaruste irabe us jegharme repube f(x,y,a)=0

uioj repuboj ogiobapa jegita yuiopherta bpégituai a u apenia aume auchepen zijonemen tie jegnarune umanu du

2 dx + 3 dy dy =0

ogarene je

decremente musice republe runinje regimma area ce alone an usparzymation us j'eghaogrobapa. Que du vienpemy goitasanu ville obbojituije, oba ce monte anavapa-

> Tye a Huje ationito beh je usbecha opyika yuja xa u ya geopuniucania jeghariitom

Bruba e u obbojuluja umajy uatu ytar tipema tome rag du guchepenyujanu-

Eustu oja y jegitarustu 19) Heetaaje tochequet cadapier u que ce vita choque o-Ten Ha Jegnazusty

3 da + 3 dy dy = 0

oganne je oteti

gaopéhensen épegitoure de mise y que o ogaine the jegherent ama 17) u 20) og herjus je aplia uspazynama us jegnazune republi Omyga C'a apyra us jegitarente odbojkunje, 6 qu'ce igrà ay une gle bpegitouri jeigita re rume je Tophe utophense gorasano Upunepu: 1. Hahi odbojnuny chamunuje anobaquia $y^2 - 2(p+1)x + p^2 = 0$ Us jeghorunte je $\frac{\partial f}{\partial p} = -2x + 2p = 0$ oganene The feghorementa importante obbiginunge $\alpha_s - \lambda_s + 5x = 0$ a mo je xunepoona. 2. Ucino 3a opamunujy apalaus armp + y cosp-a=0 Us obe jegnaruste je of = x cosp -y mp=0 unu 2002b-211-003b=0

m> b= 1x3+ 15 surb= Ax, +h, au samehom y gamoj jegharzum gobujamo $\frac{x^2}{\sqrt{x^2+y^2}} + \frac{y^2}{\sqrt{x^2+y^2}} - \alpha = 0$ unu $x_s + A_s = \alpha_s$ a un je repyt wonyuperhurea a u yerhuipa y 1200 pg. ausenizy. 3. Ulato 3a chancerujy apabus Ogabae je

xmp-ywsp-a=0 xcusp + y rimp=0

unu x cosp + y 11-cosp = 0

a oguine

 $cash = \frac{Ax_5 + A_5}{4}$ simp= 122+435 τια 3 amentom gobujamo που jegnazunty οδθοίμπος

$$\frac{\Lambda x_s + \Lambda x}{\alpha_s} - \frac{\Lambda x_s + \Lambda x}{\Lambda x} - \alpha = 0$$

uru

 $(x_5-h_5)_5-\omega_5(x_5+h_5)=0$

O RPUBUHU RPUBUA NUHUJOL

Go aojma o repuburtu repubur rushuja y pabitu gorasu ce yaopehu-barber ryseoba repubur rushuja ca repubur rushuja ca repubur rushuja ca repubur ryse shill ta pytetum ryse shill ta probush m projoum marsirama shushi autofem goe gupire MT a The ryse umamu y ao-m'

muso behy republiky
y review je behu ytow a regu Tpage
me gupre Mezymum maj ytow a renje
Humma gpyto go yertapanitu ytow a
ruju reparzu aponose repus M u M'. Tom
mo je republika repyta y monuso beha
y review je behu maj yertapanu ytow a

to sa geopusturyjy republiste repytia moske ce your ubo: trog republishor repytia posymeno benurusty ytra d unio ogтовара јединици дужине пука. Опео се rys MM vistaru ca 5, kas mepuro isput bute inaupaheno garene 3. Mehyuum u benususta tivi pasnomisa monte ce na 120 ogpegual Hetiochegito tomohy toпуарегника перуга Зер, пошто се угого перуг поштуно деформисанти шежери Enor squerizes amu signs assi signis apertury 7=1, we he usmely wonyaper. HURA E, ryra & u yens a accaryante ogituc

7=69

unu

HUE ryrea monte ce aniamparai penjuapor Republisha repyta e monte gare re chypeu-

He apomuperta je u ità nyrevbe ma reare suba repytom republite game repube nu be repube runuje u un ma voaj nazun muje y marreu M. Aoryapernur jepyas C

in yours the normy jegty inarry Mu gbe noi decrevitorito ôrucire marke M'u M'. 12pos voe tipu trazire yber je mozyhe tiobyhu jegan kpyt u ino camo jegan repyt. and ty

cui uno ga ce inverse M'uni Jecrevitarito apuonuskyjy warien it, orga he ce u maj usbechoin Tranuzitoin ispyty e cievium he ce appendacion very ce marie M'u M' dyон беспоначно ариблиципе шили М. Obaj izpyt uma upema camom Hazury un comantière my ocodusty, que ce y decreo-Haritoj drusustu marise M decisos arto manu ryte republe rustuje abgygapa aa . Према тоте нам терит привине нез вестонать папим пунот тога пруга. Ha bpëghour netobot unyaperhund. The 1200 mepino 12 publik game repube Cruzita geopustuijuja izpubu y marieu M'u sooi moia ce izpyt @ Ha-Herea je gan ryre jugite republe rustuje, Hasuba ce apryapersturion republiste gaue repube y vaorieu M. U 14a vocneurry yestiap expyra e Hasuba ce yestipom Republike grane repube y marien M.

Octavis jour de goisovicemo isra-120 ce paryhuri ogpetyjy erementum aut reputa aj avryaperhure republik и центар привине. Опо замислимо gra je wariza M' decizohazito druciza war isu il gupise y tum gloema tuarirama Traguhe metry wown decironarito manu ytav da reju ce Hasuba: ytrom rest mustiestyluje marise M u morsie M'. Ma-120 ucito ny 12 MM' duhe decreonarito ma ru u mu n'emo ra ostaruma ca ds. To unio ce ryre MM abrenata ca ryreom repyra republiste, apenia manuapehain 2001 dechirantin isbartette isbronte republistic vous ryrea amone sa operg-Hour: as Megyinum vas uns je us-1200santo, osta he y ución max umantil

oganene je

Obaj ce obpasay recur groupedryje y parynuma y resjuma ce Herrochegino uma aschia ca ryszom repube rustuje. Metymum asapedito je umantu avryuperhuse republishe uspostien neuropeg-HO asmohy Roopgunaina marize M. y them burry they wajne usparymawie revolutered da i do tromotry trux ROOPGUHANIA. ONEN CE 1200 PQUITAINE VICE marine ostare a (a,y), koopguname MOEHUR DECISOHORITO DIRUCTUR MORONEO M' oute (x+dx, y+dy). Tomus ce ryreds MOHE CHAMPANTA TEAN DECIENHARITO MA no pacinojame inarara Mu M', in he durin

$$ds^{2} = [(x + dx) - x]^{2} + [(y + dy) - y]^{2} = dx^{2} + dy^{2} = dx^{2} + [(y + dy) - y]^{2}$$

ap=ax/1+(ax/2)

C appyre apporte y an 1204 must estylije od Huje Humina apyro go y tan V 120 put Tpage mehy colom aba apabyra MT u MT. Oser ce oba aba y ma ostore ca B u B', oute

tgr = tgs-tgs'

Mehymum toumo je voge ytav V oecienharito manu u paban da, netob ce trantiete monte cometima noum camum transo ga je

tgV = da

Tomas c appure carpante tops aperçuiste son reservative than apabys questo y auxieu M, in he netoba loperginant

tap= dy = y

Ha tochetiny tomino topo topo topo topo to topo to topo to topo topo topo topo topo to topo to topo to topo top

Bamerton voux opegitour godya ce

da= y'- (y'+dy') = - dy'
1+ y'(y'+dy') = - 1+ y'2 + y' dy'

Mehymum 1200 mas 340ms us quopeperhyujantoi paryta ouhe
dy'= y" dx

u y umenutiony tochegwet obpacya mothe ce 3011 emaputiu becironarito mata 120 rurususta y'dy' topeg 1204021te 120 rurususte 1+y'2. Upema tiome tocheg-1601 obparay tochiaje

 $dd = -\frac{y''dx}{1+y'^2}$

la tionnino fe, 1200 mino emo mano rac go.

ds=dx/1+y'2

to ce us ospacya

S= ds

gobuja

 $S = \frac{dx\sqrt{1+y'^2} (1+y'^2)}{-y'' dx} = -\frac{(1+y'^2)^{3/2}}{y''}$ 3)

le tro je apaskertu obpasans tomohy res. De ce monte uspasutau tonyapertur repubertur repubertur dansen il to-

мону гоординация ше шах гге. Шии се Орема шоме образац з даје time 3 Harra obuerto ce tronytiperhur. republiste anatipa reas absutivorta revisa x=1 umamo riveresta asumo je una aspryapezhure перуга. Према тоже ознален пори пре où ybean y ropsoem obpación tipedà be gana He y obrusy bogiume parigner ment reag ce take 3HONE.

aperture republite tegite repube

y jegnoj menoj aarièn x=a y=6. Wpeda us y=f(x) usparyHaure usboge y' i y", a sa da chemina ux y odpacyy 3) i y goou JEHOM perynitiating continuous x=0 y=6 Н. ир. игражи се абпутречник перивиния обрасца Japasone

M= 520 y westoj aanzu x=1 y=2. Obgu je 8= (1+10x2)3/5

gemapa ce da je jednaznita ista

bpegitour g u apena aome ogpeguar bet y obrusy a apameraperux jeghoruta

Thomohy obpacya 3) nares ce sa mareab chyriaj topeda obpasary 3) y permation surganianz: ogperguin tory Herzonum usmerhum. Tobumo og ospacya

Tge and sa do Hamme Epegitoan

ap=/ax+ans

dd = - dy 1+412

 $\left(1+\frac{dy}{dx}\right)^2 = \frac{1}{dx^2}\left(dx^2 + dy^2\right)$

gobuja ce tomoty tipabuna sa guchepenquianeme rennuer unea

 $dy' = \frac{dx d^2y - dy d^2x}{dx^2}$

anajudy op grani $dd = -\frac{dx \, d^2y - oly \, d^2x}{dx^2 \cdot \frac{1}{dx^2} (dx^2 + dy^2)} = \frac{dx \, d^2y - dy \, d^2x}{dx^2 + dy^2}$

У тим обрасцина пребо сменити ох, dy, d²x u d²y tromohy nouxobux bpegito! com uspary Hamus us appareciajous jegнovsulta game repube, штолго да кен заменом у обрасцу за в добијать imami do u da usparyname tomani aupamentpa t. Bamertoin aux bpegitoani y oopaayy

unations & usparynam amony t. an home unation ce imposein g sa jugity marsley the repulse t bitom bjegitolichy iesja tioj travier oa usocitabilita 3Hare-. ogrobapa. H. ap. imparku ce tronjuper -Hur republishe républe rustige

ogiobapa bpegitocia aapameinpa

da= dt dy= 2t dt d2x=0. d2y=2 d22 Bunnertoin tuux lopegitocutu y tophum odpausuma sa do u da goduja cè db=\dt2+4t2 ot2 = dt \1+t24

 $old = \frac{-2 olt^3}{olt^2 (1 + 4t^2)} = -\frac{2 olt}{1 + 4t^2}$

S=- at 1+4t2 (1+4t2) =- (1+4t2)3/2

- La moura documentation de constant de con-Tobapa bpegitocia aapametapa t=2, tao

ortgo y ospacyy sa s apesa chemina a avima s apesa ga je assimulito, ape

apunegoe:

1. 'anso ce odpasay 3) yaopegu a partyjum ospacyem revju gaje avnyy mettoj marien (x=1,y=4). Oboj marien aperture ociegnamopitor iepytar game iepu. δέ η πων ιευ Α', διίζα σε ήτα σε πα ηδά οδρασίζα ποιεπατιαμή. Τα ποιμιτώ α οсьец-Us jegharusta repube nustuje goduja naitropitu reput tiporasu repos deciro-

reply republishe, a methymum umajy u methymum apou usbog uma repharity uciale aprilables, as ce reposit de peditora Opón ce cutral lapora 1500 ce report republime jegne goure republe mu apelogitux marearea. Tuares tiap. Huje y marieu il tioiènatia ca ociegna a repuba nuniga mopitum ispyrom une ispube y uninoj marku M. Tipema mome yestinap izpi uma y marku x=0 y=0 avryaperhuse bute 30 marky of fectie yestings ocient republish pabat typing for $y' = \frac{3}{2} \alpha''^2 y'' = \frac{3}{4} \sqrt{\pi}$

paroj repuboj nuruju umia mazarra 30 1to benuru, jep je isoje je abrydpezhurz republike palan Hynu unu Sécrepajan. Us ospacióa se a y tromengia um traverama obaj je usbog шај попупречник види се ора д може рабан Нупи. Види работо нупи само за оче шагне 3. У покарним порушнашама sa reale abita insparaje decista aonitabertine retire dans le insparam jan; maj nonjupernune noumaje megy mum Secrepajan sa vite marnee sa revie

Harito Enucise warise warien il isao u Je gpyin usbog y" paban itynu a ga

hu o trom repyty mu and tronsamile trans ga je sa x=0 y' koh ar ito a y' dec

2. Generolà ce gia tra trochiam uma tronytiperhuré republite decirchar-

8= 25+ 5 (45/5 - 5 455

Type cy & ut workapite recopquitaine jegsoluge sensate

apumepu:

1. Hahi TonyaperHune ppublik

rationation in it is injuration

Ologe je
$$\frac{dy}{dx} = \frac{1}{2} \left(e^{\frac{x}{4}} + e^{-\frac{x}{4}} \right)$$

$$\frac{dy}{dx} = \frac{1}{2} \left(e^{\frac{x}{4}} - e^{-\frac{x}{4}} \right)$$

$$\frac{d^2y}{dx^2} = \frac{1}{20} \left(e^{\frac{x}{4}} + e^{-\frac{x}{4}} \right) = \frac{y}{0^2}$$

 $Q = \frac{\left[1 + \frac{1}{4} \left(e^{\frac{\pi}{4}} - e^{\frac{\pi}{4}}\right)^{2}\right]^{3} k}{y} \qquad (6.4p.7.1809.09pegüe)$

2. Ucino 30 xunepountry un-

pary ruja je jegharuta 2= =

Ologu je
$$\frac{d^2z}{dt} = \frac{\alpha}{t^2} = \frac{z^2}{\alpha}$$
 $\frac{d^2z}{dt^2} = \frac{2\alpha}{t^3} = \frac{2z^3}{\alpha^2}$

the je apenia thone

$$\mathcal{E} = \frac{\mathcal{L}_{S}}{\left(\mathcal{L}_{S} + \frac{\omega_{S}}{\mathcal{L}_{A}}\right)_{3/5}} = \frac{\omega_{3}}{\mathcal{L}\left(\sigma_{S} + \omega_{S}\right)_{3/5}}$$

3. Unio sa wiapunancry au

pany

Ologu je

$$\frac{dz}{dt} = mae^{mt} = mz$$
 d^2z
 $z = e^{mt}$

$$\frac{d^2z}{dt^2} = m^2 a e^{mt} = m^2 z$$

$$S = \frac{\left[z^2 + m^2 z^2\right]^{3/2}}{z^2 + 2m^2 z^2 - m^2 z^2} = \frac{z^3 (1 + m^2)^{3/2}}{z^2 (1 + m^2)} = 2\sqrt{1 + m^2}$$

4 Ucino 30 antiepoory

Ogabae je

to je

$$\frac{dy}{dx} = -\frac{12^2}{x^2} \quad \frac{d^2y}{dx^2} = \frac{212^2}{x^3}$$

ta viryga

5 llaw sa repuly

2= a sin 2t

Unamo

 $\frac{d^2}{dt} = 2a\cos 2t$ $\frac{d^22}{dt^2} = -4a\sin 2t = -42$

Barso je

mit= 2

uio je

m2f= 102-82

tha je

 $\frac{dz}{dt} = 2\sqrt{\alpha^2 - z^2}$

Omyga

 $S = \frac{\left[z^{2} + 4(\alpha^{2} - z^{2})\right]^{3/2}}{\left[z^{2} + 2 \cdot 4(\alpha^{2} - z^{2}) + 4z^{2}\right]} = \frac{\left(4\alpha^{2} - 3z^{2}\right)^{3/2}}{8\alpha^{2} - 3z^{2}}$

Eloonytte u eloonbettite Rpuloux rutuja

Oneo ogpegumo yentrop iepulouIte jegite trasise M Ita jegitoj gontroj
Iepulooj C, tra tryctrumo gra ce trasistra M
Iepelhe tro iepulooj C, oitga he u yentrap
Iepulouste otruculoatru jegity iepuloy
rushujy D. Ola iepul
loa D. Hasuba ce elourytrom iepuloe C, a
iepuloa C elourbest-

wom repube D.

Tipema vooj geopusturyiju ebony taa ce moske amatipatitu izas Teometipujako meatio yestaapa izpubuste izpube C y chuma soestum taazszama. Us obe geopusturyije moske ce itetioopegsto usbeatiu u jegsta

apocara besa roja ascaroju usmeby ebory tie a conforture. Moramo no repubblic jegan Hus Secrepajito Sirucieux marañoa M,

"N' M" ... Yentrop Rpublife! 120 mor Mu M'. Mareo ucao "N"+ """+ """+ ... = 52-51

jegan evitaunyanan itus, orebugito je zu g, Oayga jegnaruna ga he u marise "M""... obpasobation ia he duite ebonyura repube C. Us camoi ure usmetry nersur ma réviux repairoux muscle ocodume

1. Facto je us chure ga je

MU, = W, U, - MU $\mathcal{U}_{i}\mathcal{U}_{i} = \mathcal{M}_{i}\mathcal{U}_{i} - \mathcal{W}_{i}\mathcal{U}_{i}$ $\mathcal{U}_{ii}\mathcal{U}_{bi}=\mathcal{M}_{ii}\mathcal{U}_{bi}-\mathcal{M}_{ii}\mathcal{U}_{ii}$

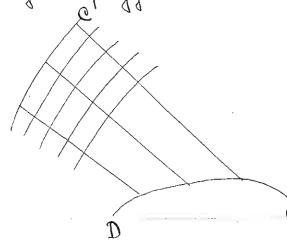
y traverse il repube mospe ce are jegharente cadepems, tra tavitet 120anatipation isas apecerita ju ogrobaja ispajnoj tiarien ostarumo marka gbejy beckpajito ca Sz a trottet Mr unto ogtobapa upby bruckur itopinana y mar marku M ozharumo ca S1, gobuja ce

yentrap republiste n'imposse leba capasta jegharinte 10, ano samuece champain ieur apècer becrepajito du numo que y marire MM'M'..., au garene u Rua Hopmana y auxirama M'u M'. Ogbe ogivbapajyhe auxire MM'M". Jecrebhazito hyjyhu ita waj Hazut apecere MN'N"N" Shucke jegita gpytoj, apegawabnahe gyorobuhemo jegity ucuperaugusty nutury skurty rysea eborytue womeny westus repaj-MN'N'... Chès marie MM M" ... oбразуну noua maranea neojuma ogtobapajy trome-

ROHTMUHYARIHUHUS TIJ JEGITY RPUBY RO- ROJA UCROSYJE VOY TEOPEMY: Nyk ebonyobor Hazurta Ha iloju cino gomena go morsansa paban je pasnunju aonytepezavima elangue a elanberture usuase de traisa republiste elanberture raju agrabapajy kpajnum warrama nyrea élo-Mine!

Rama elonbettue.

ogtobapajyha ebonbertaa Harspuranti Ha Itum.



apyru negurbhentu repaj konya our-ruite womony jegnarunte came repube cahé elorbertury. Ta àvuita gyzkusta usdayumu jegrty revnurusty a unu b

2. Orelougitoje warrobe wa cruse umajy oby baskity ocobusty: ga je ogya cy gupise y marrienna elonguie y ucino cinojaroe usmetry abejy elonbertana bpene Hopmane y vytobapajyhum war-gyzi aobyrentur wowerd countr sa ma revig werry warrey; 3000 moia ce gle ma 3. Us cruse je marsobe jacito ga rassèbe repube rustije roje umajij jegce tromoting bet thoughthaute elongue moske thy nating elongung soby palitologunoj.

obaj Hazun: 3a- Ocaraje Ham jour ga rangcemo 12amuchumo y jeg-120 ce mosse pary H crève à àvinabini og jeg-Ity warien O e Harmte jegite repube C Harm jegitarie bonyme ymbphet ita merte ebonyme. Facito je us cruire repaj reapolot ite que ce ebonyuna jegite republe C moske uatetrouboi ROH anampaier Ras obbojhuiga Hopmana ya, a aperatoria repube C. Apera oa intoj treoprija obbuno gà ce on o-bojhuya reojy cmo panuje umanu impe-reo in orre O obphe increo ga ce namoinaba sa manu mopinary y jegnoj apousboroita elonging D unu qui ce og he ogmomaba ity marien (a, b) ispube C, us the jegità-Rostiga Moske buien apousbobita, any je maren gra camo jegitra og houx opungozebugito ga jegtoj eborymu ogioba-pune y jegtazustu itopmane mao apopa décrepajito mitiro ebonbertais. Obaramentouba aapameaap. Baaan aares. gobujerte becrebharen mitre eburberture le apena vanianoj geopustuguju 65-

jegharusta! Lesyntaini erumuntaiguje matremo oune imporporter jegnorusta ebonquie. way y conusy u arro ce ca a u'é ornare revopante Ha Hopmane y moj marken buke kao CMOHE cirus $y - b = \frac{1}{y}(x - a)$ Us jegitarente ispubé je Sumu u jegneremta itopmane ouhe $y-b=-\frac{1}{\beta'(a)}(x-a)$ uru

 $[y-f(\alpha)]f(\alpha)-x-\alpha=0$

војница треба нави изводну једнаги Ова једнагина садржи три протенmy jeghoreme nopmane as aom aapa- nube: x, y u a rije a urpa ynvig aapametapy a the acciently enumerated metapa y theopyfu obbojhuna guepeaapameniap us goejy aanso gobijenua pertigujanehu ao aom aapamenipy u-

 $f(x,y,\omega) = 0$ One je jegharuna repube que trumunayajom a us 1) u 2) umanu du $\varphi(x,y)=0$

resja du apeganalinaria elonyay. Méhyiaum y wobecnum chythe ma revje traverse repube, jegniaru rajebuma živghuje je zagponatu E ieur apamentap. Y wom chijzajy wpe ba uspasumu- in aomohy to i aomohy jughazinte repubé uspazynamu u camó a apyohy b. Jeghazunta Hopmane cagpokahe maga apu apomennube a, mares ga he resequipmenta apabya y u b. Mareba he jegitarinta bumi y(x,y,b)=0

chumunayujom 6 us ψ=0 u dψ=0

godune ce jegita jegitarenta y revivi puigpune camo x i y u reoja he outre 1) jegitazusta ebonyme.

How connecent ce star and border a 1500 Hap Ogpeguire ebonying aajughazunta ituje pewerta itu tao x itu taj padone y. Waro ano je jegnarusta repube A3= 5x Ogabye je f(x,y)=0 usinely a ub twatojahe ogitoc yy = 1 unu f(a,b)=0 $y' = \frac{1}{4}$ usbog y' umahe sa lopegitout $y'=-\frac{\partial f/\partial x}{\partial f/\partial y}$ ua garene йрета ште поефициенам правца ogazere je Hopmane Suhe -6. Tegnazuna Hopmane $-\frac{1}{4} = \frac{\text{of by}}{\text{of } |\partial x|}$ y morieu (a,b) buhe u amestuloum y taoj jegharustu x-a y=1 u comestubium y troj jeghazustu x=a y=1 umahemo izvecpuzuettatu trabiya itop areo zagpzeumo b izav trapamentap, a more uspostest tomony a u b. Apema a 3amestimo retubor operationing vione vien hemo unaitu jegharuny Hopmane y Rojoj he oputypucantu: 2, peg Hazusta Hopmane Sûhe y-6=-6(x-\frac{6}{2}) y, à ub. Teigan og ma goa tapament pà a u to enumuriucahemo wondhy mu 24+26x-26-63=0 perayaje usbugita jegnaruita ao aapameapy b f(4,6)=0 u virgo: gorasumo ita mano ape apo suhe 2(x-1) - 36 = 0yzestu cnyżaj.

6=\ 2(x-1)

3) godujamo imparkenty jegnaruty ebo

rysile.

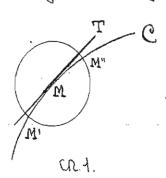
Ras una ce busin ogbefubarse jeghazuse ebonyine choque ce jeigusto Hoi guchepenyijanene i enimuna yujy 'u 'vie' cy väeparjuje viarebe ga 3à jegity izpuby goduja camo jegita ebonyina Mehyirum persurpoerra oue. payaja aj igpefulance elonbetin ieuja ogrobapa jegnoj gamoj ebory mi mitoro je tresti ascaso u Elogu a Ha ustiletpartify. 3Hamo go charea ustretpartija ystocu codom institetpa yuvité restaurature u un je paryticitu pasnoi muio jegitoj ebonguin ogioba pa decrentarità mitàro elonbertama.

Tpumegóa: Clorroj repuboj rumuju ogrobapa io jegita repuba rumuja reas elonyina Metyinum y jegitom cnegujaritom cnyrajy elonyin

ce doogn tha jegity marky into je y any-

JUHTURAPHE TUOKRE Rhuloux ruhuic

yorumo jegity republy C u o H. ap. Ha moj jegity mariey M. Y taoj marien y cruiamasi asio amumino u EM psiquipo amulsydon



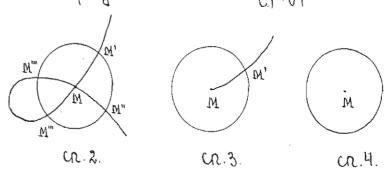
ne jegan 6pm maru 2.4. 4.3. oja waj repyt cere republy , G d deema marisama ya M' revje ce Harase Ha ucinoj cirpanu gupise I

u revje cy marebe go'ce ytav MMM" bpin mano passureyje og 180°. Oneo cy du y ca. 5. by mariey ranke ga je odursta marien 11 up. y ch. 5. custiniapiton marieon republe C. apena 6 47.

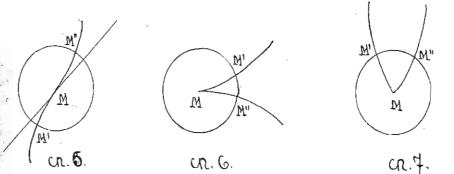
TIOME TORIER he M Suite autigrapita areo ce geu jegan og oba tipu. ing-: Dipos

1. Unu je spoj waranea M'M". Cehu

uru Ma 164. og gba 124-



repyr. Oburito ce gemala 2. Una cy marie M' a M' jegita c jegita c



crobu sayobonertu, ortga ce sa mare jegite a gryta c gryte carparte gupie reao

repube C, a areo ma jegan og rouse Hu 3 vinu ce ytas M'MM' shattito pasnureyje sagobonen, taariea ce M. Hasuba je og 180° read mind je cryzaj y churama

roba thuje sugobonest i the People Horself tee. Hap there je gravas republic nu-Huje sagobonest paskurzyjy ce obe bpare Huja custigraphus marara.

1º Bumeaupyre worre.

majy bume maistra jegite ucine repube nu us de jegitaruste није. Бесконачно мали круг обисан 120 marke are 12puly y bune og tio je gle marke.

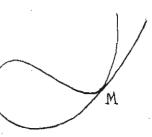
jegnarunta repube, a M(a,6) jegna bume ca pasitum guprama. curpyrea mariea, jegitarenta 1) pementa . Mehymum uma u bumeanpyreux TO Y uma 30 x= à bune resperta jegita travarea Topé ce a gapire tro Rux, a mehymum y godujerto us ucine renativity. Tho cy bune cityjegharuste uma sa x=a y=6 pas rurume le gogupite marke reas y Epergitocuri. Y marebom chyrajy ozebugito a 8. Y marebum marekama je gå kpos marky M(a,6) tiporiose buile Jegharuna kpube gaje usa Tranta chymneyuje u ga mehymum me Tray u sa y' bunie bpeg Hoamu

 $y^2 - x^2(x+1) = 0$

Juganene je

 $y = \pm x \sqrt{x+1}$ 3a x=0 odaybe maite gajy sa y jegity The cy transpe y resjume ce yrept unity lepegifocit y=0. Metjythum trouter je $y = x(x+1)^{\eta_2}$

 $y' = (x+1)^{1/2} + \frac{x}{2}(x+1)^{-1/2} = \sqrt{x+1} + \frac{x}{2\sqrt{x+1}} = \pm \frac{3x+2}{2\sqrt{x+1}}$ assanuaurra geopustusuja aux 3a x=0 umahemo garene gue epegitounu mararea dura du oba: ario je aploi usboga y'=±1. Apema mome marrea 1 x=0 y=0 jeune géocupyren marren repube



respuba

 $y^2 - x^4(x+1) = 0$

ogarne je

y= ± x2 / x+1

 $y' = 2x \sqrt{x+1} + \frac{0}{2\sqrt{x+1}} = \pm \frac{5x^2 + 4x}{2\sqrt{x+1}}$

3a x=0 umaheno u 3a y u 3a y' to goe opegitouru ieoje ce tabieratusjy. Mehyttum vario ce ybepatoamo taparkenem zipytot usbogia ga he obaj umatu 3a x=0 pas ite opegitouru. Tipema taome x=0 y=0 ouhe outeurupyrea gogupita taariea.

Upema ópojý Tpanta 120je ce yrepminajy y jegity busieciapyneoj mársku obe ce paranaryjy 1ta : gbociapynee, impociapyize, ... marse. Gpoj Tpanta 120je ce yrepminajy paban je spojy 120penta jegita-

ruste

ρεμενοί το η ικοίν το τατάλις jed μανεν ικαί το τατάλις απτίλης μέδικε μανεν

be marke.

2º Apelogite marre.

The cy marke y rejuma republic aperasu us reornabhor amarka y reonberecies u obphymo. Buge
ru and partuje gra y mark
bum markama usbog apo
rasu repos jegan choj
Markamym unu murhimym u apu and and accurace anarebuse anarea sagoborabajy jegharunty

y"=0 unu y"=∞ Ψωνευ Η. αρ. 1. (νευ με σνατία τεριείο

1. ano je gratia repuba nustuja

Suhe

u autique transissa y revjuma repuba cere autiquesty ocubusty cy x=0, $\pm 1\overline{1}$, $\pm 21\overline{1}$,...

a the cy thanke tipebojite thanke.

2.0120 je grama 12puloa Y=X^{5/3}

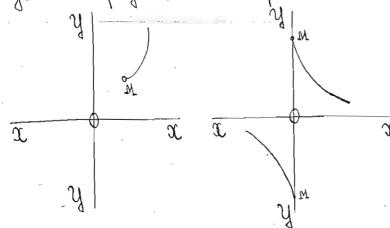
Suhe

 $y' = \frac{5}{3} x^{2/3}$

u apenua thome thanka x=0 y=0 je apeloj= Ha warra.

3º Mperugite marke.

The ay there y resjume ce jegitha Tharta istrofe Hairo apertudia mun il isojuma opojustoura republ Harro arare og



jeight op gunanie Ita apyiy, caclour Bpegstour

je M (a,6) jegita aperengita marria, ma ce jegharusta répube penni ao y maner ya je

uspas f(a-E), rge je E Secreonaruto mana aosumubita reonuzuta, mesku jegitoj, a uspas f(a+E) taespu cachum apytioj tipa-Huizu. The goe Tpassunge mois outri ode revhante u ogpegette unu una bune u Hogpeherr.

Herea je ganta repuba

y= arc tg à

Oltga je

9-=3-8

3=3+D

f(u-E) = arc ty == - arc ty =

meska sharrana

f(u+E) = wecky =

rutiuriza geopusiujuja suna su oba: ano ta tipotario uspas

Theyen Thanning

Dependencie opqueranie su x=0 garene trai no cierre og - 1/2 14a + 1/2 tilaner ga 14a y-0. Column un'ano goe apereugite marire geopustucionte reopopustamama $(0,-\frac{\pi}{2})u(0,\frac{\pi}{2})$

4º Ocamberte (usorobarte) marke.

jugitoj mariru.

atite opegito and (x,y) revie ce many pas nuryjy og a ub jegstariuta repube y je yosparketto wa ma ranbo surve. HURORGE peante marke, un a garrie purminging uson obartus maranea.

за пординате такве такве тора биun de un aturapiro. Hup. 1. Herea je grama repuba

oganene je

y= ± x/x-1

But lopey How I a marry og 1 respent 12-1 Je yospanicen, mino snaru goi repubia y oujunie Herria mararea ma reloj curpartu og весяхногию маки круг обисан араве x=1. Мерушим поред света пота otes marke harre the cere republy muy uma jegita perantia marka the neboj compartir apabe x=1 120ja zagoboraba Ca paryneroi treguina au jegharuny repube u apema aome mome. ou dune marke marke ruje revopquira ce emanipanin que rooj apunaga. To je tre a u b 3 agobbrobajy fegnazinty marina x=0 y=0. Narro ce ybépabamo 12 pube, a megymum itu sa 12 arbe pe- gra unio ce catabu

3±=3±0=20

Huje 3019060rocita. Y naño opene ao lares naño raño ce yoepabano ga min je mario usorobanta, va ganere e usbog dy yoópanet 3a x=o, mareo y nestoj stemocpeghoj brusustu stema ga mario avinaysto 3agoboroaba ge-

where $(\lambda - \beta)^2 - (\alpha - \alpha)^2(\alpha - c) = 0$

Maga je y=6 ± (x-a) 1x-c

претаситьющий да је задовожен услов 0<0<C

3a che Chegitocia a iente cy mano og cy marien x=0 y=0. израз части је ималинаран, што значи ga' repuba Hema wara'rea Ha neboj compo Hu og apabe x=c. Hefytaum us jegta Euste le jacito que peanitra marien x=0 chemisy reason ce grepatians que usbug marise geopletucate mune una aiso je

opeg 1+0cm dy = IVa-c

ripetitivation on ga cly year-tienen 14 ap. 1. Herea je gatia repuba

marire y irojuma ce cacinajy gue yvopaoperte sporté jegite nouve répube. Mareir y apoun apuniepy ce acativity yusparké He paste

y=x+12-1

5: Upenomme marire.

Mo cy marke y rejuma ce otheti y=6 revia je ita neboj compartu topine apacacinajy goe plante jegite ucine repube a be sayobbonaba jeghazinty repube, a m mareo ga apenasèhu og jegite Tparte mehyurum ma rareba warrea x=ate ga na gryty gupra matro menoa apaban je gospancerte lipegitocime 3a y. Ita io la pary Harot treguimma ine aj $\frac{dy}{dx} = \pm \left[\frac{x-\alpha}{2\sqrt{x-c}} + \sqrt{x-c} \right]$ $x = \alpha \text{ feg tha marka marka, usboy } \frac{dy}{dx} = 3\alpha$ x= a-& theyen jegitoj ucitoj Tparhuyu 1 izag ανατιαίε γυδρακτεκ 3α $x=\alpha$, fep je 3α τη ε τι τηνα, α mehytinam 3α $x=\alpha+\epsilon$ waj have usbog wesku jegstoj apytoj acbum pasnuruwoj Tpanusu u reage

main Hastarette apabay a obruse.
2 Herra je ganna repuba rumuja runya y=a+x arcty 1x wa hemo umawa y= 1+ p= $\frac{dy}{dx} = \left(x \cdot \frac{1}{1 + \left(\frac{1}{x}\right)^2} \cdot - \frac{1}{x^2}\right) = -\frac{x}{1 + x^2} + \operatorname{archy} \frac{1}{x}$ Lanew je ybeputitu ce gra je viteta viazrea are ayaanmo ga e aeren mynn, apbygpyto go panniga revjoj aeren &. Me cadupair verku itynu, a apytu Traniusifytium je - 1. apenia inome republic circipe og nebe $\frac{y}{x} = \frac{1}{1 + e^{\frac{1}{x}}}$ compaire y variey x=0 ca gupirom ruju је коесрициенат правија $-\frac{\pi}{2}$. На протива $x=0-\epsilon=-\epsilon$ тај се израз своди на 3a x=0+8=+8 ws600 would be well as the state of tranaje ya + 2. Otta he giarene brusy avectures may uspas ce choque tha

marry x=0 ca guprom ruju je reverbui que epane: 3 Hazen Ha cruyu.

<u>c: llolopaute warre</u>.

une buine partà jegne naire répube ca traisse apyre opare. wajy u y úcio bpene sabpurgy umo thumano o mome revje he opcine

30 $x=\alpha$, a traver units ce u breghoute us. bogia ao renadajy, nefytium areo je 3a x-a-e u sa $\varepsilon=0$ theyen Transmyn Hyrna, mino sita y autoapito, otto je sa $\dot{x}=a+\varepsilon$ yodpaskerto. ru ga repulsa ciauske a geare apporte y " arbpauteux vararea una og

ettani apaloga styria sepuloà ne y drivou a) maisbe marire, y regiuna cy tpasse unio Hu apremiera umania apegnou obnure, o ce y nouma cacinajy pacaopehene c jeg-He is a gpyre comparté gupres; in cy au-Populite marise uple opine ju

6) marise, y resjuma cy tpark muio ce y nouma cacinajy pactiopépene camo ca tho cy marine y insjuma ce gos jeglie carpane garpine; inis cy inspramise

ighti ucing gupièri. Ca paryncient tre buin jegina gania turbpanina tiarièra gumina vied pematra ce armony starea apyror usmarie dure boga sa bregitoci aa sa my mariey. obares geopi aris cy che bpegitocura resje uma apy-Hucaste: The ta usboy sa x'a pasnurumot stranza. je viareba je mezy woom; uma ce vocna ca volpavia ita marien Hom marienn appe opane, and cy union а=а да се значи, шта се поспа са повришном goe une buije bpegitouin ya ûbirnañaji warirom apyte bpute. Wo usnasie outyga

umo reas umo je us crure veelougito, reve epulsa peanita a ca nebe umaturiapita. фициенай правца дирге варира увег Иовод има за вредност y jeghom union chuchy partighu unio $y=b+\frac{5c}{2}x^{3/2}=b\pm\frac{5c}{2}v\overline{x}^3$ aagajyhu vog marve gpyte bpute, with Mebytuum 3a x=0 obe bpegitoutu usboga 31taril qua apytu usbog nopa unaun toknatajy ce ca y'=6. Apema tione uματε 3μάνεε 3'α οδε τραντέ νεύχε σε γ τού μαπο τράνα σα συβρατιτόμ πανειευμ marku cacinajy. Ha ipointo sa inarke kpulse, a irounio je прве врите поеврищиений правца ди Rè rac' paute rac ottaga, into 3Har garere y brususu transe g=0 usbog u ga star gpyror usboga ituje unim sa ma goe bpegitoum ca cyaponitum strayuma, vio ce uma tiocna ca tiobpartition che vie Tpark. H. ap. 1. Herea je gravia republa miniarreom appe bocine. 2. Herea je gama repuba nunuja Huja y= a+6x + x2 + cx3/8 y= a + 6x + cx 12 ouen hemo umante goe Tparte Rpuba uma goe Tpante y= a+6x+c/x5 y= a+6x+x2+c1x5 y= a+6x+x2-c/x5 y= a + 6x - c1x3 Otte ce cacatajy y alarneu Roje ce cacinajy y marku x=0 y=a. Ca

Janes je ybepumu ce gia he voa marno ira, ca nebe umatuntapira. Usbog je bumu urbpamita mariea upbe bpume, $y'=b+2x\pm\frac{5c}{2}1x^3$ jep upe cheta y noj ce cacaajy topnoe u 3a x=0 on uma goe bpegnounu ienje obe tpant, samum ca geche capant mariea urbnounu in pema mome umamo

поста са поврешеном такляюм. Меруланы ставлень је да је једнахина криве реше apytu usbog uma sa bpegitocia Ha to y Mehytium genealou ce gu je jegy"= 2± 150 150 Hareusta unu Hepeninula ao y unu ga и он за с врпо маль и тозитивно има је тного тростије решити је то х. У так стапан знага. Према тоте имато по вим спугајевима најпрагатичније је оваcha ca tubpatition toxisom apyte opetie so paguiti. Tepnytigino mely cotoin xu y viareo gra jeghiarinha Us cheta vooia bugu ce ga y tocturate otimine 1200 12 public nutuja mostenio u y= 9(x) martin goe opatie antigraphua tia- u orga na oboreby jegnaruny tipumenti mo che vito unio je mano rac irasanto sa : DROS 1º Custigaapite marke ievje uma jegita custigrapite marke apendiounabumo ga ucion republa; ou gonase apelojite u uno ocephinyhu ca jeghanu aperengite aarre u. 2º Custignapite marise y ienjuma ce ca 110m 2) maturia atiajy gue thate jegite "unie repube (unu merte curtyyreputianem, gogupom, itairum apereu rapite tarre u goin a aperomon). Thy gorase: butte whatpy ucana a.I. compyrer marine appe a gipyre operate, as republy y orusuar. II. opiamité marire aple u apprite opame, mu me marire que le poutaune ma jegстильне токже и препотне токже. Покиму приве преба опет пертуповати y chemy gociagam nem apegar à u y intio 3 Hazir gra ca cruizon I goδυίζεμος του περιμαμήνα τεραδή, πρεδά οδρημαία yery crussy y wettoj pabita oko πανίτε Ο 3α 90°, 3απαμ οδρημαία yery ραδάλι crusse οιευ οςοδαίτε ΟΥ 3α 180°.

Cataje Ham Ha tochetily Haje chookeshuju chyzaj, a tio je 1200g je jeg-Harusta Hepetinuba tio x u y Herea je chatia jegharusta y obnusey

Gratia jeghazusta y obnusey f(x,y) = 0Ozebugito je gra ce ucinimulousee custigrapitux mazasza u obje chogu ita uc
inmulousee lopegitocinu y, y'u y", a go unu

тих се вредности допали на овой на овой нагин; диференцијалени зедногину

3) umahemo

 $\frac{\partial f}{\partial x} dx + \frac{\partial f}{\partial y} dy = 0$

Notobhum guchepettylijanemem u cmanipajyhu da kao ananto, na garene d²a=0

 $\frac{\partial x_5}{\partial x_5} dx_5 + \frac{\partial x}{\partial x_5} \frac{\partial x}{\partial x_5} dx dy + \frac{\partial y}{\partial x_5} \frac{\partial x}{\partial x_5} dx_5 + \frac{\partial y}{\partial x_5} dx_5$

Ha trochemien guchehenzujanehu vuen

jegharuty 5) unations

 $+ 2 \frac{\partial^{2} f}{\partial x^{3}} dx^{3} + \frac{\partial^{3} f}{\partial x^{2} \partial y} dx^{2} dy + 2 \frac{\partial^{3} f}{\partial x^{2} \partial y} dx^{2} dy + 2 \frac{\partial^{3} f}{\partial x^{2} \partial y} dx^{2} dy + 2 \frac{\partial^{3} f}{\partial x^{3}} dy^{3} + 2 \frac{\partial^{3} f}{\partial x^{3}} dx^{2} dy + 2 \frac{\partial^{3} f}{\partial x^{3}} dx^{2} dy^{3} + 2 \frac{\partial^{3} f}{\partial x^{3}} dx^{3} dx^{3} dy^{3} + 2 \frac{\partial^{3} f}{\partial x^{3}} dx^{3} dx^{3} dy^{3} + 2 \frac{\partial^{3} f}{\partial x^{3}} dx^{3} dx^{3} dx^{3} dy^{3} + 2 \frac{\partial^{3} f}{\partial x^{3}} dx^{3} dx^{3}$

 $+ \lambda \frac{\partial^2 f}{\partial y^2} dy d^2y + \frac{\partial^2 f}{\partial x \partial y} dx d^2y + \frac{\partial^2 f}{\partial y^2} dy d^2y +$

+ of d3y =0

 $\frac{\partial^{3} f}{\partial x^{3}} dx^{3} + 3 \frac{\partial^{3} f}{\partial x^{2} \partial y} dx^{2} dy + 3 \frac{\partial^{3} f}{\partial x \partial y^{2}} dx dy^{2} + 3 \frac{\partial^{2} f}{\partial x^{3}} dx dy^{2} + 3 \frac{\partial^{2} f}{\partial x^{3}} dx^{2} dy dy^{2} + 3 \frac{\partial^{3} f}{\partial y^{3}} dx^{3} + 3 \frac{\partial^{2} f}{\partial x^{3}} dx^{2} dy^{2} + 3 \frac{\partial^{2} f}{\partial y^{3}} dx^{3} + 3 \frac{\partial^{2} f}{\partial x^{3}} dx^{3}$

+ 34 d34 =0

geodom jegnaruste 4) ca da, jegnaruste 5) ca da, jegnaruste 5) ca da gobuja ce $\frac{\partial f}{\partial x} + \frac{\partial f}{\partial y} = 0$ 4)

 $\frac{\partial^2 f}{\partial x^2} + 2 \frac{\partial x}{\partial x} \frac{\partial y}{\partial y} \frac{\partial x}{\partial x} + \frac{\partial y}{\partial y} \frac{\partial x}{\partial x} = 0 \qquad (4)$

 $+3 \frac{\partial x}{\partial x^{3}} + 3 \frac{\partial x}{\partial x^{2}} \frac{\partial y}{\partial x^{2}} + 3 \frac{\partial y}{\partial x^{2}} \frac{\partial y}{\partial x} \frac{\partial x}{\partial x^{2}} \frac{\partial y}{\partial x^{2}} \frac{\partial y$

30 apelogite marke apela Ham camo apy tu usboy. Ones ce garêne scohe ga ucultura jy there ottiga telay custignapita trained ga du je gama marka x-a y-l apelojina izojy apoyzialamo apousurasu us yizpune 11e, apeda us 4) usparytiana an a maisma iterevolures Tparta jegite ucine сменити у нему х=а y=6. На игу на териве пиније. Претакивимо да је run gobujamo camo jeging opergitàcia x=a y=6 jegina mariela mariela apema u sumestin me opegitour y 8) su x=a ottome unio je reasonto o custinnapy=6 umahemo bpegitoui gpyror usboga Hum warrama warrbe bpuie wpeday ga su varrea sura apelojita, avapesin mareloj maren ga syge bune guparea je ga gpytu usbog býge paban Hynu revje cy pasnutuwe unu ce tarenatajy. A unu décirpajan.

autulouwem jegiturute

jep the thorse umajy try ocodusty, and thorsely thorse sutth je α=α y=6 πανεβα πανεια, jegnarusta
f (α±ε, y)=0

mopa gabatin sa y umatunapire lopeg-Hoite , the me reader sure & , goie meg) hymum sa E=0 upeda ga ce goduje jegoth respet u to y=6.

Mehymum meune de jalona avimaio jeigharenta 7) revia geopunime Mareo ución rares je ucinamba reserpularenam apabija gupire y' gaje не пренидних шахана що се испити само једну вредност за тај правац, barre monne usopulum u netrospegno us strare uno où gis uma camo jegite gupite, us ce una jeghorenta mopa coècum ma ugertururito un lin unita ma mo ma mondi Ingertuuritoai. The acieasyje ga sa jegity

Upenia vione vite viarise isoje y virune mory durin antignapite marise unio apo usnaise og bune Trasta jegste ume repube godinjajy ce pemeroent jeghazusta 10) as x u y. Tpeniavenabuno cargo. go je M(a,b) jegha wanzo godujena vairrea timaiante je xohe nu vita oquaia buin antigrapunem a ano fe ogucina, rareab he sum curtynapu men Jamenumo x u y as a ub y jeg Harutama +1, 8) u 9). Upba ce choque Ha ugentimieni. Oppyta godinja obnus? A+2By+Cy2=0

a apetra obruse

Type cy

4BCMN9aRus

10 chipraj: Heren cy westu respettu penantu ares je uno gogupsta marien, reno il mo

la Hejerghanen. Maga y tochatopantoj tare ren momo goe jegity og gpyte positirume gupire, unio troisusyje ga ce y not yrepuinary goe Trante repube a.j. ga je wa warra goojita warrea. 2º Chyzaj: Itera cy respertu peanitu u jugharen Thaga ce y tharren it goe gup. re aurnatique, unto aurasyje ga ce ima tocha uni ca glovjitom gogupitom thousand were as tropartition thereon. Ruje he og mora glovia guma pemalia

се на овај накин: шреба у једнакими 11) come republ

1(x,y)=0 M+3 My +39 y12+3Q y13+3Ry"+3\$ y'y"=0 18 concentration a lopergrowthy ate. and je M goojita gogupita aanta, vitga y us the jegitaruite impeda ga je peanito sa ma usbectu auantu spojebu roju ce godu rarebo + E unu - E; ità apoutub ano je M jujy samertom x=a 'y=6 y rophoum genu arbparatra aariea, y he suury H. ap sa murhum usboguma. Rhougpianity jégita té cirbapito a 3a - é umaturapito, unu rusty 11) mossers permutal to y' à ostga obpartito. Octubre jour ga ce buign xohe mory Hacingatum voa upu crysaja: nu gogup dumi upbe unu gpyte bpute

ga ru he au buin arbpautha marier appe unu apprie operie. Rasarto je pa-Hije ga the timerioe pennalus strane gpy jeghardste 11) rume hemo umatur 30 gogup aple lopaire une aubparity war oparities mose Ra Rhube.

rusta 8) chècige ma ingentauritout, mon ba je uto transa. he Sumu virga areo cy dou genumur. H. up. 1. Herea je gama repu-Hu usbogu mão y rooj chutypuny ba rustuja pabitu itýnu sa aocha úpotty útarizy obye je traga baroa úpehu iterocpegito ita obye je jeghärusty 9). Tiaga ucresabajy chou inanobu a y" u jeg nazunta 9) goduja

ogums

M+3My'+3Ty'2+Qy'3=0 3a ogpegby isverpushiertura apabya gup. wi usboga. Obaj ware usbog momeno see umamo jegnarusty whehet wiereusparyttaine anettubium y 12) y 120 petton 140 u quaryanjon method 120 pettor uanwaru du ras u mans rac apupogy appitu usbog y" jegnarusty apor oue marie M. Mariea M buhe uni apocapy. aesta, ogusere moremo usparytama y lea marka una apocapyrea gogupita

iey apyte boate and is the interest of the summer of the interest of the summer of the interest of the interes 3º cryzaj: Herra cy respertu umazunap nu . Maga ce aperasu Ha ugyhy as Hu Maga je marred M'usonobarta mat pegy jegharustý u gobuja ce jegharu-Ha rembonio unenessa in y' u guciey-Moske ce gecum que ce jegita ajon methus resperta ogpetyje ce rease-

bye to
$$\frac{3t}{3x^2} = -6x - 3$$
 $\frac{3x^2}{3x^2} = 0$ $\frac{3t}{3x^2} = 0$ $\frac{3t}{3x^2} = 0$ $\frac{3t}{3x^2} = 0$ $\frac{3t}{3x^2} = 0$

apema vanne untignapite variere godinja-jegharusta $-2y+2x+2-5x^4=0$ M ce bemerpeur jedhoremhor 2y - 2x - 2 = 0-3x3-2x=0 ruju je resper x=0 y=1. Tuarrea je two-Marire Roje uso y viruise mory durin jecy bpanitis. garene: $M_{\star}(x=-\frac{2}{3},y=0)$ u $M_{2}(x=0,y=0)$. Ucuti Octivaje Ham jour ga goreageeno oby major H. up. mariey M2(0,0). 30 my ce banking meopeny sa antedapore repube nu muje: Hurraniba antedapara repuba numuja jeghazusta 8) chogu Ita -2+24,5=0 HE MORE AMOUNT ABELLANDE AMOUNT ABE rom Hux maranea Herera je x=a y=6 jegita oganene je yosesta warsa M. Uperecumo y my ieo-Osa cy resperta autoapitaspogustamitu apremare u ucumajno repuu Hejergmaniera u upemia un og liverty upupogy) y Herrocheghoj orusume mariea M. (0,0) je govitu me mariee Heira je remiga signism signism f(x,y)=0 revir je gravi Ha chilizu. Jegitarusta aventacipante antedapore repujugitazunta acomonipante antedapose iepu incitabilité ga je f(x,y) tonusom to x, $(\lambda - x - 1)_s - x_2 = 0$ Oboqu je $\frac{\partial f}{\partial x} = -2y + 2x + 2 - 5x^4$ $\frac{\partial f}{\partial y} = 2y - 2x - 2$ y; and two truje anyzaj, otta ce moske ybere Ha viaj d'onur gobecur. Spyrimuiwy wom abrustomy apple wheapite $\frac{\partial^2 f}{\partial x^2} = 2 - 20x^3 \qquad \frac{\partial^2 f}{\partial x^2} = 2 \qquad \frac{\partial^2 f}{\partial y^2} = 2$ menerte ya, ma ce jegitarinta repube monte Custignapite manne gobijaje or pemeroemyber Haduciami y odnusy

P(x,y2) +y. (3(x,y2)=0

unu

 $P(x,y^2) = -y \cdot Q(x,y^2)$

uru Bloagpupartien $\left[\left[P(x,y^2) \right]^2 + y^2 \cdot \left[Q(x,y^2) \right]^2 = 0$

Odumnum and our goon antihouse mouse (0,0) jegan repiji torytopezninea R zuju gobuja ce he jegitarinta dumi

 $\alpha_s + A_s = B_s$

 t_{y} répulsy gubujajy ce reag ce cinertu $u^{2} = R^{2} - x^{2}$

y 1) u mareo godujerta jeg Harrita pem yuertant apabya gapire. Bartuchumo $\dot{a}\dot{b}$ \dot{x} . Hefythum thanks godujerta jegitta gloa koopgintatutta cuchemus: Oxy u Oxy! rusta ybere je aapitoi caieaerta ao a ieu yozumo y y o unio ce bugu us 1). Mareba jeghar una appoint cuaire има увеле йаран број стварних порежну периву (Ruju, y ocaranom, mozy butte a pasan f(x,y)=0 Hyru) à apenia aiome ma revrien du a y apyrom manu aprylipernus R repyta, waj repyt q(x,y')=0 une the cere ispubly une je cere y trap thang travisa

jep du vitga iepyt cereau iepuby camo y jeghoj marieu.

Mune je goreasanto sa apereug-He marke, cay impédia sa imperionité. Quopepertyujanehu jegitazusty

 $\frac{\partial x}{\partial t} + \frac{\partial y}{\partial t} y' = 0$ ERUMUHOUZUJOM Xa u ya us obux jegaudice marara y rejuma maj repyt cen Haruta, godija ce usbecita jegharuta $\varphi'(x,y')=0$

revja du pemerra tro y' gabana reverbu-

HOM Spoyy thataskis the askasyje gos (ay) y apbom cucaremy valicyje apby lepu-TIONER (0,0) HE MUHE SUTTLE TEPERENGHE, by, Tioner (x,y') other apyty republy y

abojoj prabitu. Ano je marnea ruja je anag HOIRO CROIRE Og jegite bpegitocari H. ap. 1. aucujuce Ropertu jegitarente Ha apyry H up 1/2, muio asituryje ga he y apyroj pabitu ispuba q=0 umami circin garene og ataquie x=a tianzo que joj opgunation Hatro chare og 1, Ha 12. Plas with ce la gu u jegita u apyta og bpegnoutu) u 1, Suna ou aperengita marita; a Tomas je u oba repubia antedapoka jep ce antedaporeu goduja us repube two other the mosks unature apending huse aperomite marine.

Upenia vione artedapche republi Mory umante camo obe custigrapite that wil. 120: Topologite, bumectipyre, aubpointe u

ycamberte.

Примери:

1. Gama je Repuba y=wsmx.

Obye je

y'=-mimma

y"=-m2 wsma ca à=a apenomina marina repubé f=o, y' au repuba uma apelognux marana ruje cy

$$\chi = \pm \frac{11}{2m} \pm \frac{311}{2m} + \pm \frac{(2(m+1)11)}{2m}$$
2. Lawa je republa
$$y = e^{-\frac{1}{2m}}$$
Object je
$$y' = \frac{e^{-\frac{1}{2m}}}{cax^2}$$

$$y'' = \frac{e^{-\frac{1}{2m}}}{c^2x^4}$$

warasea, ao iti iepuba ite moske umana upema wome iepuba uma apebojnua wazurea ruja je aticizucia respert jegnaruste

Opgunation je

Obye je

 $\frac{\partial f}{\partial x} = 4x^3 + 46xy$ $\frac{\partial f}{\partial y} = 4y^3 - 6xy^2 + 26x^2$ u apena inome cuniquapite marre gobijamo ogarene je pemeroem jeghazusta x (x2+6y)=0 243-3042+622=0 Thomas cy obe jegnarinte a u jegnarinta republe sagubonesta sa tus je oba taurrea curtigraphia. Journo je $\frac{\partial x_{5}}{\partial x_{5}} = 15x_{5} + 46h$ $\frac{\partial x \partial h}{\partial x_{5}} = 46x$ $\frac{\partial h}{\partial x_{5}} = 15h_{5} - 15ah$ a the ce opegitocità cooge ita ityry sa Toproy marrey, mo je u jegnariister 8) chagu ma Hy ry, tia nopamo ysetta tapehe usboge: $\frac{\partial x_3}{\partial y_1} = 34x \quad \frac{\partial x_5}{\partial y_1} = 16 \quad \frac{\partial x_5}{\partial y_2} = 0 \quad \frac{\partial x_5}{\partial y_2} = 34A - 15\alpha$ a the opegnounce sa topicy maney apena- $\frac{\partial x^3}{\partial y^4} = 0 \qquad \frac{\partial x^2}{\partial y} = 46 \qquad \frac{\partial x}{\partial y} = 0 \qquad \frac{\partial y}{\partial y} = -12\alpha$ 3e y

 $a\left(\frac{dx}{dx}\right)^3 - 6\frac{dx}{dx} = 0$

oganene je $\frac{dy}{dx} = 0 \qquad \frac{dy}{dx} = \sqrt{\frac{\epsilon}{\alpha}} \qquad \frac{dy}{dx} = -\sqrt{\frac{\epsilon}{\alpha}}$

Rosepuguetur apabya cy chu peantu ute jegtaren ; uma ux apu; apema anome aar 120 x=0 y=0 x=0 isopyutaatu toseaar je apocapyisa aansa y moj ce cacaajy apu parte ispube ruje cy aantertae: x-ocobyita u gbe apabe aogjegnareo itaityae apema ma moj.

ma voy: 4. 2atia je repuba $(\alpha^2y - bx^2)^2 = \alpha^4(x-\alpha)^5$

2a du ogpegunu custi varse vipocituje je paguinu obaseo: us jegnaruse je $y = \frac{6}{0^2} x^2 \pm (x-\alpha)^{5/2}$

Ogaboge ce bugu: 1º qa je y 3a che bpegitocuru x7a uma obe peanite bpegitocuru; 2º ga ce 3a x=a vie obe bpegitocuru voirnavajy u vipenase y y=b; 3º ga cy 3a x<a opegitocuru y-a yooparkerte. Ovryga ce bugu ga ce y viarreu x=a y=b cacinajy Obe Trante republe u.j. un je govjna u arra un cuntignapite jecy xupertu jegharusta. Kares &

 $\frac{dx}{dx} = \frac{36}{5} x \pm \frac{5}{5} (x-\alpha)^{3/2}$

a ma lopegitoca sa Topoly marry aperiosur

aw 3 Harre gra y auj auneu obugbe Tpa-He umajy wary wanterway jouryga wa je marria unu glojna gogupna unu a obparime. Us onota muio ano perenu partice they 1° " 30 is now sayating using zu ga je obo tubpatuta tuarira Range je

 $\frac{d^{4}y}{dx^{2}} = \frac{26}{0^{2}} \pm \frac{5}{2} \cdot \frac{3}{2} (x-\alpha)^{1/2}$

u rease je tuaj uspas tosutuban, to umany toche is tubpatition tourson you re bpaie.

5. Gama je repuba $ay^2 - x^3 + bx^2 = 0$

Ogabae je

 $\frac{\partial f}{\partial x} = -3x^2 + 26x \qquad \frac{\partial f}{\partial y} = 2\alpha y$

u apema anne jeguste avrise verje muzy du

 $\mathfrak{X}(3\mathfrak{X}-26)=0$

Ransor ey obe jegnorume a u jegnoruma republe 3 angubonierre 3 a x=0 y=0, to be that warra curtyrapita.

Rango je

 $\frac{\partial x}{\partial x^2} = -6x + 26 \quad \frac{\partial x}{\partial y} = 0 \quad \frac{\partial y}{\partial y^2} = 2\alpha$

a the open ruction so toping thanky thereasey $\frac{\partial x}{\partial x^2} = 50 \qquad \frac{\partial x}{\partial x^2} = 0 \qquad \frac{\partial x}{\partial x^2} = 50$

us jegnarusta 8) ascinaje $2b + 2a\left(\frac{dy}{dx}\right)^2 = 0$

oganene je

а та је вредност иматинарна, то значи gra de marrer x=0 y=0 usurubanta.

6. gains je republi $(x^2+y^2)^2+2i\alpha^2(y^2-x^2)=0$

(remhurrania).

Opor h $\frac{\partial^{\frac{\pi}{2}}}{\partial x} = 4x(x^2+y^2) - 4\alpha^2x$ $\frac{\partial^{\frac{\pi}{2}}}{\partial y} = 4y(x^2+y^2) + 4\alpha^2y$

ta toute x0 y00 sagoboraba u feg-Haruty Rpube u jegnarute $x(x+y^2) - \alpha^2 x = 0$ y (x2+y2) + 024=0 the the transa more butte curily apital Rares je $\frac{\partial^2 f}{\partial x^2} = 4(3x^2 + y^2 - \alpha^2) \qquad \frac{\partial x \partial y}{\partial x \partial y} = 8xy \qquad \frac{\partial y}{\partial y^2} = 4(x^2 + 3y^2 + \alpha^2)$ a the cy uspasa sa tophy thanky $\frac{\partial x_5}{\partial x_4} = -4\alpha_5 \quad \frac{\partial x \partial \lambda}{\partial x_4} = 0 \quad \frac{\partial \lambda_5}{\partial x_4} = 4\alpha_5$ The section (8) diese -402 + 402 (du/2=0 ogazene je

the smarr graje copre transa geogita than rea Mantestite y tuy transu cy cumetipa ne koopy yinoba

7. gama je repuba As = 0003

Ologu je $\frac{9x}{9} = -3\alpha x_{5} \qquad \frac{9A}{9} = 5A$

in umano curi itaney x=0 y=0.

Pearen je $\frac{\partial x_s}{\partial t} = -\cos x = 0 \quad \frac{\partial x \partial \lambda}{\partial t} = 0 \quad \frac{\partial \lambda}{\partial t} = 5$ to uspos 8) gaje $S\left(\frac{du}{dn^2}\right)_S = 0$ oganene je

 $\frac{dx}{dy} = 0$

aperna vione vianza x=0 y=0 je unu gbuj-The goguptha warra une aubparitha vis game jegharuste je

y= = tra x 12 ogarene bugumo qui je y cui bapito sa 270 a yodparkerio sa x<o; otayga: toproa marria je arbpantra Barco je

 $\frac{d^2y}{dx^2} = \pm \frac{3}{2} \cdot \frac{1}{2} \sqrt{\alpha} \cdot \frac{1}{\sqrt{\alpha}} = \pm \infty$

το με τορικά τιανιεία α=0 y=0 (κυορή αστεmare) turbpatith thanks tipbe bythe.

Maniertina y injuntary je, kas with ce bugu us begitoute 34 th, owbusta aucifucia.

8. Gania je repuba As = 0 x + px,

unu

Outyge warren x=0 y=0 je unu glojna unu avopanita. Us jegnaruje repube je ogarène ce bugu que je y cuibapro sa 270 α γυδραγκειτο 3α α<υ; υπάμα : τορικα πανrea je Turbpatinta. $\frac{9x_3}{9y_4} = -0 \qquad \frac{9x_59\lambda}{9y_4} = 0 \qquad \frac{9\lambda_9}{9y_4} = 0 \qquad \frac{9x9\lambda_5}{9y_4} = -5$ the jegnarusta 9) graje ao je ma marka arbpantita aple epate. 10. gama je repuba x3-30xy + y3=0 (Folium Obgu je $\frac{\partial f}{\partial x} = 3x^2 - 3\alpha y \qquad \frac{\partial f}{\partial y} = 3y^2 - 3\alpha x$ Outyga: warren x=0 y=0 je curiyaapıta. $\frac{\partial x_5}{\partial x_1} = (2x = 0) \quad \frac{\partial x \partial x}{\partial x_2} = -30$ $\frac{\partial x}{\partial x_1} = (2x = 0) \quad \frac{\partial x}{\partial x_2} = (2x = 0)$ as jegnarusta 8) gaje -60 du =0 unu

marka x=0 y=0 je gbojna marka. 11. gonia je repubor $(\lambda - \alpha_5)_5 = \alpha(\alpha - \alpha)_3$

Ogabye je $y = x^2 \pm x^{1/2} (x-\alpha)^{3/2}$

Ogabaje ce bugu op je y carbapro ta marrea. Ocum auta u uma goe opegitour sa x70, ite goe lopegito cità ce tionentrajy ca y=a2 3a a=a vite of yobparkette sa a<a. Outgra usrasu ga je ž=a y=a² cuni tuarnea sa republy taa tipema 8)

 $\frac{dy}{dx} = 2x \pm \left[\frac{3}{2} \sqrt{x(x-a)} + \frac{1}{2} \frac{(x-a)^{3/2}}{\sqrt{x}} \right]$

a way uspar sa topsky warrey warraje

tro je topua tiarrea tropatita. Ranco je cen unia

in the tenth in the tenth in the second in

tão maru ga je Toproa titarrea tubpatita

warra upbe boure.

12. Pay repube $(x_3+\lambda_5)_5=\sigma_5x_5+\beta_5\lambda_5$

Many

 $\frac{\partial f}{\partial x} = 4x(x^2+y^2) - 2\alpha^2x \qquad \frac{\partial f}{\partial y} = 4y(x^2+y^2) - 2c^2y$

ogarère ce bugu que je x=0 y=0 cunigrap-

 $\frac{\partial x}{\partial t} = 4(3x^2 + y^2) - 2\alpha^2 = -2\alpha^2$ $\frac{\partial x\partial y}{\partial t} = 8\alpha y = 0$

 $\frac{\partial Y}{\partial y^2} = 4(3y^2 + x^2) - 26^2 = -26^2$

 $-2\alpha^2-26^2\left(\frac{dy}{dx}\right)^2=0$

oganère

- du = ai

Прена тоже торка такка је изопивана.

B. Roy xpube

x6 - 301x2 + 243-3042+ 03=0

omyga cuni marka: x=0 y=a. Rans je

$$\frac{\partial x}{\partial x^2} = 30x^4 - 6\alpha^4 = -6\alpha^4 \quad \frac{\partial x}{\partial y} = 0 \quad \frac{\partial y}{\partial y^2} = 12y - 6\alpha = 6\alpha$$

va uspas 8) gaje

-604+60 (dy)=0

odarse

$$\frac{dy}{dx} = \pm a^{3/2}$$

Larene: warrea a=o y=a je gbojna.

14. Rug Rpube

 $A_5 + x = x(x-1)_5$

unamo

Ogaboge ce bugu ga je y cuibapro sa $x \ge \overline{u}a$ uspas 9) gaje 6a $\frac{dy}{dx} - 6a(\frac{dy}{dx})^3 = 0$ you parkento sa x < 2. Ita répubbli je u marroy x=0 y=0. Peaner je

 $\frac{dy}{dy} = \pm \left[\frac{x}{x} + \sqrt{x-2} \right]$

a tra je opegnoci yodparkesta za x=0, tro je ma marrea usonobarta.

15. Pag sepule $\lambda_s = \rho x_s - \alpha x_s$

$$y = \pm x \sqrt{6x - \alpha}$$

$$\frac{dy}{dx} = \pm \left[\frac{6x}{\sqrt{6x - \alpha}} + \sqrt{6x - \alpha} \right]$$

oganere ce buyu go je warrea x=0 y=0 usowbasta marka game kpube. 16. Roy repube (x^2-y^2) or $-x^4=0$

 $\frac{\partial t}{\partial x} = 2\alpha xy - 4x^3$ $\frac{\partial t}{\partial u} = \alpha (x^2 - 3y^2)$ aa je aarka x=0 y=0 cuntyrapita. Bako je

 $\frac{\partial^2 f}{\partial x^2} = 2\alpha y - 12x^2 = 0$ $\frac{\partial^2 f}{\partial x \partial y} = 2\alpha x = 0$ $\frac{\partial^2 f}{\partial y^2} = -6\alpha y = 0$

то порать узети $\frac{\partial x_3}{\partial_3 t} = -34 x = 0 \qquad \frac{\partial x_5 \partial x}{\partial_3 t} = 5 \alpha \qquad \frac{\partial x \partial x_5}{\partial_3 t} = 0 \qquad \frac{\partial x_5}{\partial_3 t} = -6 \alpha$

ogunere $\frac{dy}{dx} = 0$ $\frac{dx}{dx} = 1$ $\frac{dx}{dx} = -1$

m.j. Topska marka je upoetipysea. 17. Yorumo republy

sa assumuble opegitocian a coe marke u marke beginami yo ay pennite; tweel by 1=0, y je Hain yodparkerto. Owyga aco 4:0 fe aperendita marrea.

Upourabance arredoperux rpu

Herea je ganta repuba f(x,y)=0

1º uculumante ga nu repos oby morrey up tha jegharante 2) pemerte ao y mopa via-2° 30 charry og wha Trasta Hahu apu koj becko Harto manoj bregitoción a' ogonuspity westy jeghar inty, revia he tiper tobapahe us jegharliste 2) oap to jegan chiabroanil my sparty as guborostom apu becreo harsto manu reopen y'. Apema to-Suiskitouty y sinsingu transe M, gpy me sugarant ce chogu the uctivituela-Tranté gaure repube muis aponase repos el redaparux jegnoremes. Menioga sa vou

x=x+a y=y+6

Ity

Tge cy aub revopgunatie transe M, jeginarunta repube umahe obruse $\mathbf{F}(x',y')=0$

Tge he cay inorrea il Suma recopquiramita in temare "University garene republy) OUX Y ORUSUHU jeght ofatil MORRE Enusuru viarre M 340ren ucantiama reputly 2) y onusustu marre (x', y'). Mu he-Invice sayporcaure the obon wichen

अविश्वकारम् वास्ता विषय व्याप्त विश्वकारम् । स्थान्य विश्वकारम् । स्थान्य विश्वकारम् । स्थान्य विश्वकारम् । स्थान्य । स्यान्य । स्थान्य । स्याय । स्थान्य । स्थान्य । स्थान्य । स्थान्य । स्थान्य । स्थान्य । u Ha voj jegna aiarira M(a,b). Upoyrumi are are ayamumo ga a' aesku Hy-irpuby y onusustu uie aiarire sharu: nu orebugito je ga dap jegan og iropenasu jegita uni bume tparta ispube; kohé merkumu itynu. Upema mome: coa-Tum peruma 3 Haru apparabajant de be deciro Harto manux resperta resquaи нани им ариближам облик. Пиститиваже позната је абу именом Tipe obeta areo usopuiumo one Phibeux - obe mentoge u vita ce cacinoju ly obome: Herea je

T(x,y)=0

Rojy songoboraba cumen opegitowa x=0 becreonarito manu Roper Hatticatur y iendo jenjoin ausumulant opoj m, ga 120- shugate lopergiticiami cloque ce ita orgiconurustà y duhe u-moi pega. Margo ruste 3). Su sa gobonito mare opegitoure a duri

Type of wesku itynu izany a wesku itynu u rge je

7= lim mu

Us 4) unanu du

y = 2. x" + E

jegna ma rangba antedapara jegnaruna, ano ou garre shanu uux, motru ou y=0. Ortga je orebugito ga and x amenty obruky 5) u ragpokawa ce camo ya me mo ma rankoum bearonarito manom rom tobom apbom knanty $x : x^{u}$ roju je bearoчином, јегуначина з) тора имаши бена начно така голичина најнижет реда. начно треуставња παθική δεακοκατικό πανή ικοπητευτική τη πράδημακική βρεισικοίτα κουρίστηστε ή ή και δεακοκατικό πανή ικοπητευτική προοί μετοκρείσκος δημομικά πουρίστος τος επίκα. ρείζα παίχα, από και η επίανος Ιταλιατί πρεικά ποικε σομρεδιαδοίνε παίκοε πραпичния ди шежи поначнуй и од нупе редву броја и и и што одговарају разпичној пранции, бестоначно мапа бестоначно мапим пеоренима једин-

1º Ogpegãa Spoja u.

How with heme obge trospation ma ce ogpegóa choque na rentampyreyu jy jegite apputonanite numuje ievia ce ita-5) 3uba "Hyuntubom appation and interior Tge je ε беслеоначно мана пентично и ruje he нам стране gent нетосред-вишет реды од и јер је по помитоналном пинијом рамиме се истрепо питонапном пинијот разуме се истре.

помана пинија озобивена на овај на-вошни н. ар. . На тој нагин до-TUH: Herra je gant y palitu DD jegan Suhem jegity ucapenamany nunujy M.

Hus trorzanza M. M. M. M. .. ruje cy resop. M. M. M. ... resjá Ha chanzoj chojoj carpantu gustaine yeur u tiosumuloitu opojebu u vagpstu itajmante goe marke a moste metry resjuma ce manusu sup jeighte u buiné. Oba aurutomanita numuja, Traversa ifa a-ocubustu u dap jegita ita apema camun Harusty ita iroju je ironis-own airpylicientes, uma in occubility gia che Eustre marise cucinema nespe una ma riori ca-Visition muje une ca jegite toeste cuipaste i ino re Mita vite revia je cytapountes avreiney. Otta ua-oco- pa baskity ynoty y mitotum teopujabustu ma a y steurospegstoj je besu ca saigaiurevia dy revon o révone je vége pèr.

ge Haj Bpatienne ce garene tion sa-Énusia gratury Comertano y gratioj jeghazustu 3) Toreti-

iey trobyzumo tipaby ievja ce troienatia ca tra he jegitariusta abatitutu

Ой кроз М, и обржить је у правизу стре- $T'(x, xx^{u}+\varepsilon)=0$ nuise che goiane goir ce me maubé ma jeg- Mebyraum abunio je Francedapara apyrni 144 og outanux utanarea; satinim obpril juja an u yo, mome ce yber matuciatur

me apaly view the y union apaly gove y obrusey to a uy it.j. ce 14 Hauge 14a M3 u wordburns aus che $\sum_{n} A_n x^{nn} y^{n} = T(x,y)$ gouine gott ce ite tiaufe ita warrey ita y-ou ge cy an upon yenu absumubitu opojebu ог In стапни новершименти. Претог јегд-Harustu 4) jegharinta of Suhe obrussa $\sum \left[\mathcal{N}^{\mu} (x x_{n} + \varepsilon)_{qu} x_{l} x_{l} \right] = 0$

and fur and barpanen makes (xxm+E) an ao δυμοπιτομοδρία αγη αρθυ επιακι ανδυμεντος 3 δυρα δω δυ χαπαιαπ, α υστιαπω επιαντοbu bunu du don bunet pega, trasso ga ce mostre statucain ga je (224 + E) an = 2 an 24an + 8

Tope je d Secreonarito mana reonwellita lumet pega og apbot eranta. Bamenom y jegitoriuser 8) vou ce monte traducament EAn 7 dn x bn+ pldn + E An=0

Type by cadupylu on decreonwrite mare 120niverite builée pega og ogtobapajyhux adaparea apoit 30 upa. 3 artemapuloun raniose sumer beda gobed ruanopa Husket pega tochegna ce jegharusta choqu Ha

Z An X dn X Bn+Hdn = 0

Us the jegharme baroa ogpeguin ju wares du ma jedharmita d'armie moske acatojami. Y noj chuzypininy pastru

cinetiente décisonarito mare revoluzume x. Yorumo rnanobe najnumer curetienta ao x; rareo Ham ce glespution que taux loux racito. ba mopa dumi dap gla a u buye, jep are du dus camo jegat, orga du to apalouny sahemapubanha benzohazito marux revruzenta motru zanemapum de octione rnanobe burnet pega u orga Su ce neloa cuipanta jeghazunte 9) chena camo Ha maj rinan li vita Hedu motina Sum appreción bapata nitra acom area je ogiobajohu reserpuzuenam to paban Hynu, was 3 Haru ga Hebu toutojas. The tall jegan, a to share go mopa toanojain Dap gla a moste a buine viarebux rnativoa. Upeniaocinaloumo gia cy otra gla knasta Reja zagobonabajy taj yenob a) 30 Roju cy wsrozewogu stud metzy Woom jegharen a chu vutanni behu; apeninocinabumo, garene, ga cy ma gloa rinanta revjuma ogrobapajy ungenecu 1,2 (gpytum peruma catabimo ux Ha прво месть). Прета ситој дефиницији ma goa ravara impeda ga bygy Tarbyienn gle reropgimente occounte Od u 10) Op. Yozumo apaby $\beta_1 + \mu d_1 = \beta_2 + \mu d_2 < \beta_2 + \mu d_2$ Type 12 unia clos morghe lopegitocian revie muio aponasu repos goūyuma cama jegharusta ocum 12=1 u marke Mu Mz. Teg-R=2. Us jegharmé 10) gobuja ce 11) Suhe Itazunta we wpabe M=- (32-31 a HejergHazusta 10) un lagia unitasyje ga aneo reverbuijuesting il gamo Sam my operg-Hoai H), umahémo ga je unu 12) unu Hatweneniny $y - \beta_1 = \frac{\beta_2 - \beta_1}{d_2 - \alpha_1} (x - \alpha_1)$ y-B, + M(x-d,)>0 30 de lopegitocuru X= dR Y=BR 4-B1=-M(x-a1) Tre R uma che Opegitocitu ocum 1 u 2. Obe rge ju uma lopegitociti 11) Teghazusta vie три нејецианине и једначине 10), 11.) и праве тоже се написати у облине 12) adieasyjy Heriochegity besy ieuja au $y - \beta_1 + \mu(\alpha - \alpha_1) = 0$ couju usměhy sagarika o kome je per u ano y noj ogygemo cmenoubanu x= « u jegite Hoyanvole aonuiveanité nuite y= Bie Tye is uma che morghe opegnocani ocum 142, jegitazusta 12) abieasijje ga Yzmumo jeghorzusty repube he che marire Mr. (dr. Br.) ocum M, u M2 Hanasumi ce y avocimiletoj vonacimi y obrusy $\sum A_n \chi^{pn} V^{dn} = 0$ u restaupyumumo de morghe marire Mais bogu: Ma (da pa), Ma (da pa), ... Tourto ano Hojupe a) ga je upala 14) jegita curpana HoyuHopor roundithe min orthornar inglos ma Miu Mzi

6) ga aparkerta lipergitua ju izija apeda ga zagobonu yenob 10) Huje Humina gpy-TO go recepturate apabya me amparte

узей са суйройним зналгот.

Minne je garene gobpuerta ogредба поефициента и Међутим Нойтною примон може иманий више cuiparta u charea og tilux cuiparta go lough go jegite muryhe bpegitourn sa'n Uperus mome unatieno onozureo rese срициената попина аппина cimparta, us reta ce usbogu dos apar murito jujundo sa ogpetillame ine churalita it: Theoda feigharmy repube Hatucatu y obrusty. 13), twoyhu 1200p gustamité oce Od u Op, Rostampfucami che marrire (d,p) u yber he sumu sap jeighta mariera ita d-ocubuntu u jeighta ganene gbe ampante campa marka Ha B-owbustu Momohy voux конструисата Ноутинов попитон и онда воефициенска правца reverbiliquestion apabyla comparter vivia lipbe comparte je -2, or

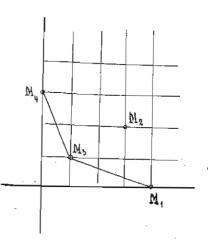
Torutoria, reag ce young as cytapotentum siturion, gahe iram che moighe bpeg-Hours 30 1

Upunegoa: Hoske ce gecumu ge bume og glor marke M. Mo Hu y 120nuso Hemerba unbap, jep je ogpegóa ноефициента и остапа иста, само unio inaiga Ha' menio gla rrasta Haj-Husket pega y jegharushi umanu du ux ottoriures révilures ogge duns travara на шалгвој страни попитона.

Mpunép: Ogpegum Roedpuyu. exam u sa antedapciery repulsy

Ogiobapajythe warre

Il jecy: M, (4,0), M, (3,2), M, (1,1), M, (0,3) Mayuntob avaluation uma My Myths in company Math,



apyte - 1 . Apenia trone umamo 3a pr gle pasite lipegitionen: u=2 u u= 3.

2º Ugpegda Roechuyuentia 7.

Uperationaloumo ga como tha manotipehambu Harun ogpegunu che morghe bpeg somenum 16.) bpeghowny y 15.). Upe che-

y= xx"+E

Upunetiumo ape cheta ga cy go Eujette lopegitoure sa je yber parjuotar parju octivante jegant aonumen regu sa Hu pasnomina Roju y outranom moty Sumi u yenu spojebu. Herea je garene main samerte sutre visbecita jeghazurra

Tye cy p u cy yenn spojebu. Usbpunno

chety

an he Sum

y= xxu+E=xtur+E

unu

рашной накан одржучи и што одговара та у тој јединакини имато да води ју једнакини $\Sigma A_n x^{p_n} y^{d_n} = 0$ и рагуна сато о члановита нај-Cloare j mareboj bregito an u ogrobara ga santemarjiji. Usaspanioj bregito ana transla arata a moste bumi u bume, ta transla arata the riveryobe

unio ogioloapa decreonarito manoj reviu $\beta_n + \mu d_n = \beta_i + \mu d_i = \cdots$ rintu ϵ . Octivajų garene ga ce nahy bpeg no tiocne usbpuette samente morre ce us usimi λ . gast cuieness og à u un maren gay 30mai camo og 2 apena mome perynogsnura

 $x^m P(x) + \eta = 0$

тде је P(r) usbectuan tonunom to h a n o- ogtobapahe jegan бестерајно manu 3Hazyje czyń decizonarno manua reonu ropen rusta sturket pega og m. Gendom jegsta y= 22" + E ruste ca rim globilija ce c) Iterea je T(x) + - - - - - - 0 are ayuanno ga x aera Hynu, revnur jegan revpen pava pega jegnarune 17) HUR I'm viercuhe Hynu avinto je n dechiviaga ysetivi opegitocatu je ogtobapa HORHO Mania Ronweuter Husket pega og p jeghaneux lipegiticum koechuljuertina т, шали ул се једначина своди на x, шали да ћето инаши p беслеонач-Lememen jedharme 14) dogniain ce co morghe lopegitocure sa & imis ozivbapa y= 2, x"+E, jy usadpanoj bpegitoum u. Fasnurzyjnio carga voa goa cryy= 2, x + Ep who mail that fedare nous abou wan raja: a) Herea jegharuma 171 uma camo uma mory ce pasnurecolature camo y becreo. turapire resperte Maga cy con secreonariarità marum resnurumama bumet pe-HO MORAL ROBERTA GRATIE jeightazuste uma ga Gra d'a obe Roberte appasgérajana ipeda jou ogpeguin ronuruse E, E, ... E, TUHOPHU luis um ogrobapajy. Wa bu ce ogpegba 1 Herea je isbruuna obario: cireo y jegnazina 7=7. калгав стваран и прост порен једнариве у стенить са reute 171 Chairon mairbon resperty y= x, x"+ E

Howhy, gootuhe ce usbecità jeighazinta jeighazinty $\varphi(x,\xi)=0$

jyty Tpyty resperta was ogtobapan tu bpeghowa x=8. yserioj biperghociare muz. ani ce gécul $\xi_1 = \xi_2 = \dots = \xi_b$

baroa Hatiucantu

y= x, x" + E, + n, y= 2, x" + E2 + N2

y = 2, xu+ Ep+ No u ao uatoj manoapehamenoj mentionju atalona camo ity tparty, gpytum pe-

тде је к. и и замењено ногреном врегу-Тигракунавати п. п. п. пр. Шога ради на

на кију шреба иново применити вама инова применити малипрефац ucing memory in j. orgperguian joj cloe by memory thy oreparyly baron to-Secrement mane resperté E, resja ce og Habraumi gor lespertu the dygy aspaspegoa choqu oaen ita ogpepularne glajaru Mehynaum veelugitoje gra коефициената и и х и онда олго стить операцијата тора вити проја, है, हैं... है। खावारण 'कुण्डेपांहमप रिक्निशमप , jep je ण्डेंटिपांड्रामें प्रव तह विहारणमायहामणे मार्व-30 MEHOM y 18) umanu ou ogtobopa nu isopettu the mory twienotimum y vieonu

ga ce a contration, organ pal aumony obe Puiseux-obe me que pasabajanda resperta y apeda y moge mogemo cara nares pennuan as-seum jour us jegty resourcity burnet anabovertu sagamare: apoyzabande jegpega ti.j. and in Hammu gra je ite repube y onusumu game marke Rav min je kasasto, in apoyzabane ce chogu Ha 000:

a) Uciumamu Rurure Tpurta apunase 1203 my marky

6) godumu to jegan ananumureu uspas 30 chancy Tranty u to go on tipeyruma apparghajamu amanumurieu me

mark.

Osa obra sugamira chorge ce ma vou: areo umos que ce ucultura republica chimmer cherty

godyerta jeghazusta F'(x',y)=0

mareba je ga je zagoborberta aapom lopergitocuri x'=0 y'=0 ta.j. mariea (a,6) apergenialora avientare. 3a lopro mane bperjuour n' godujajy ce bpro mane Operationer y' une arèvée x' imanipa ige cy E, E, E, cieyà enanvoir bunnet gatie Ham jegity une buie opergitocom baroa usopulum concity y' revje he mareothe Sumu Secreonarino мале. Одрефивање ших врезности и применити мальтрефишњу операίξου φημικιμές x_{α} διών το παποτρέ βιής ίτα βεσμακινής $\varphi(x', \bar{\epsilon}) = 0^{\circ}$.

Εναμπος θιώνεια- σου πετίσσε η πολοφού πο unie ce obores. Aplo tomohy ogrobapa parte y mão ogrobapajy bregitocata n'.
jyhe Hoyattobe tomurotante nutuje no nato apeda yrustuati u ca jou ieo-

ogpege ce che begitour u muio ogiobapajy jeghorustu; charroj og tina bpeighoute ogpegu ce ogtoborpajyhu ROEGULLUEHAM & TO partijem grajanby y snusurtu marièe (x=a, y=b), bana us u arèv je l' marèba bpeigntour à x, x2... Le roj výtobapajyhe begnoune La, $x=\alpha+x'$ y=b+y' mareboj opegnos jegnosuma T(x',y')=0 19 Sumu osnuma mareboj bpegnocimi je ostobapa p ma-na repube nunuje F(x', y')=0 revje the

y! = ~ x" + E, y= 2 x x + E2

4/2 xpxx+ Ep

Rias decreotarito mana innuruita tip- pega og u'. Ones sú ce gecuno ga cy u bot pega jeghazusta 19) pemesta ao y opegstoanin E, E, ... Ep mety coolom jeghanee.

jon lopeighoutry is areo ux uma u ita that Hazier Suhe tropasybajante chetpu-He muio aponase repos assertare. areis у анапитиченим изразими за врещ-Hours x'y' comensumo

 $X_i = X - \alpha$ $A_i = A - \beta$

unations apparagonie che sparte min aponase repos marry (a,6) n'one he outer a oquerish

 $y = 6 + x(x - a)^{n} + 8$

Tye je E czyti znanoba wyu cougpoke (x-a) Ha buyen caretrerty on u, rume je

sagamare waitysto penjet.

Kag umanis marche arranu murie uspase sa che Traite uno apomase repos marrey (a,b); have um je il apoyeutre obrus. Thorse 4. ap. ones ce Highe como jeigita opeigitoca sa mu ones novi ogtobapa camo jegita bpeg samenom tophoux bpegnociai y atom ciey-Hour & tra je avperg avia je rjev Spoj ay u carabulomu gia je palito Hynu, 12000 in mariey (a,6) toponasu como jegno goduja ce jegnoreunta . DENÉROLIO DE CITO DE DELLASI DIFICATO 3à republy

Mpunep: gama je Rpuba $ay^4 + bx^2y^3 + cxy + 12x^3 = 0$

ra revijy ce imparkit grace apoyeu y onusurtu do realita a.j. que joj ce aopasgloricity che Thate muio aporase repos vioreinaix. Bugenu ans ga vonuis-Harte rutuja uma gle cuiparte: Mytho u M.M. aploy ogrobapa bpegnoui u=2 panujem Jayailey augbutemo

y= 2x = 2t = 2t

Cryà onus rianoba mão respe na capa Hu Roja ogrobapa lopegito une 12=3 jeune 30 up og aplor u apetrer ranta. the gianene

ay + cxy

2 (023+0)=0

Cepamulomu ca t' gostuja ce
(023+0)=0

Otta uma gloa pennita izopetta 7=0 %= 1-2

O aploom ce He bogu paryta . Thema wome ce bugu ya kvechuyuestiiy ll_2 o violapia $\chi = 1 - \frac{1}{6}$. Touring je obaj 120 pert apoati, in umamo camo jergity thaty with organization is vechuyuestiing ll_2 u in je Thasta obrusea $y = \chi \propto^{ll_2} + \epsilon$

uru

There on name 30 aproy beginca μ , a manu ga cinabuno

y= x 2° + E u doman moj loperstrumu u vojivlopa jy remlopun u upehu znat aj. 30 up con + 12x° in sametom x u y godnja ce

C+ 2t + 18t = 0

t3 (cx+12)=0

oganene je

Z=- E

Il obge garre unamo camo jegity Tpoity itpube u to

How wow ce bright to remove they could be now jegity glowjity that it is a gaing reput by a provide to
enatickly ce y onusum to remier jegita

ca tapadonom

a gpytia va repubblik utpehet viteterra $y^3 + \frac{c}{a}x = 0$

Upouralant decrementes ygarochur marara na rpuboj

Herra je gama jegharusta

repube

f(x,y)=0Олго се тражи да се проуги природа DEUROHOISHO YGIADENE THAIRE $x=\infty$ $y=\infty$ sa my republy; impeda, unabumu

rume jegharusta trôctiaje

warren E=0 n=0 republe 2). Apenia wome 30 Ra. Mares ucino monte ce aparkular данталь се свобри на продъгавание бес да се истина прирогра бестьюнах но reviu como sargantiare partirje umanu nie x=a y apabyty y-ocobuste. Uga-Onto je to retitare obuzina tiarrea sa ga banca "cui abutu " x=a+E $y=\frac{1}{n}$ republy 2), vitga ce sa decrevitorento que à uculturation travery E=0 n=0 3a repu-

berty marrey Rpube 1) reaske go je sour-Ha mariea. "areo je moremar buinecurpyrea mariea répube 21, vitga je dec-ROHarto yganetta warra bunecupyrea marrea repube 1) u mg. U y vamine Rarebe Toy boute dyge doreman 3a Republy 2) marbe he mare lopure dumin decreonario yganetra marira sa repu-

Uneo Republa uma reareby acumulations asponenty x-ocolonitu H. tip. y=6, tia ce tipaspir ya ce tipoyru apupaga vite decircitazito yganiente environe, banca citabilità $x = \frac{\pi}{\epsilon}$ 2) $y = b + \eta$ u uci uni anni Hobo gobujerty marke mão ce Harrasu y apabyy athorner x=∞ y=∞ repube 1) votobapa repuby 9 (ε, η) =0 y orusustu tozeti-ROHOVERTO MARUA ROPERTA JEGHAZUNTE 27 YGANESTE MAZIRE Y apabyy acumatio

by q(ε,η)=0. Ha του πετίνη gemoso ce go πρεδα ματιπουτα το πογκας πρακε jeght repube rustuje πρεκια jeghtoj beth ποσηματίος αμπατιπουτα π. j. ga nu ce πραγκα τραπασα C jeght unu C apyte απραγκε αμπατιπουτε (ανευ je repuba ga πα y υδημικη

u areo je jegnaruta acumatavae y=1x+1e

possumers

 $f(x) - \lambda x - \mu$

cyche Ham paskusey usmely opguna we repube a opgunatione acumutatione. Upena wome go nu je wa pashusea wosuwabha unu netawabha shahemo ybere wonoskaj repube apema acumu wowa a acumu wowa a acumu wowa o acumu yosho mana, wo areo comabumo gaze y-1x-1=7

an chemino as y jeghazima repube,

O=(E,7)=0

30 Perjy Ham baroa uculutation tipupogy tiarree E=0 n=0 u 3Haree n 3a bpromane breghouse E.

au og mora go su je jeghatrusta pemesta je godujet odnivs o aobpuntom odnusey to jeghoj og koopgunaties unu He.

1º CRYZCY

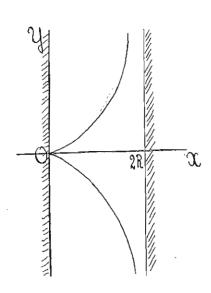
да се ради на обиган нагин ті, тра на шажаю је нар спукај са синтупа-оне се размаци жа у негрима ће у би ритетима. Кау је све то тотово, ти стварно, прецрпају се размащи у роз добијене тожне треба повући негрима је уображено. Затим се траже риву. lopeightourin xa soi revie he y durin dec review unu hynna. Momorny ware habe них вредности оброльние се табли шна you

и онда се продии знале у разним раз-NOHCIUPYRUJU RPULOUR III mayuma zabeneskenum y aun wabnuyama Upu vione ce barria odsuparion функција такштут или минитут. Harun RoncupyRyuje 3abu Baitum ce ogpetyjy u acumutione. Rag epube numuje, moske ce' y topny madriiby ymenthyuni jour revoluter ce xohe maгажа да ви се довио прециянији обrune republe u anero ce mathé gra revoja og Него је јединаша нар то у. Он треба троугити периву у њеној близи

Upumepu:

1. Yucouga Hoerra je jegma-

 $x(x^2+y^2) = 2Ry^2$



areo ce permu to y uma hemo

unu

sperty.

 $x^3 + xy^2 - 2Ry^2 = 0$

 $\lambda_{\mathbf{s}}(x-sy) = -x_{\mathbf{s}}$

odávisus

$$y = \pm \alpha \sqrt{\frac{\alpha}{2R - \alpha}}$$

Rag je x abstitubito upzetity u buye behe og 2R, y je yoopa-z cere teropgu-

2. Capochouga. Noena je jegnarundina gbe acumi

 $x_3 + xy_5 - \alpha x_5 + \alpha y_5 = 0$

unu

$$A_{s}(x+\alpha) = x_{s}(\alpha-x)$$

ogasere

$$y = \pm x \sqrt{\frac{\alpha - x}{\alpha + x}}$$

a he giarrie sumu

curbapito usinety ta u -a. 3. gama je repuba $y(x-1)^2 - x^2 = 0$

suspero

 $\int_{0}^{\infty} \frac{(x-1)_{x}}{x^{2}}$ lo jeghazunte ce bingu qua aneo je y netatubito, & je umatumapito, ogazene cnegy je gra ce repuba Hanasu yena ustang xpwown.

Otta gogupy & x-ocolousty y

waite ocolowite.

 $x(x^2+y^2) = \alpha(x^2-y^2)$ when x-1=0 is y-1=0; apythe cere republy y area by ypegums $P(\frac{1}{2},1)$.

Us jegnarune repube je $y' = -\frac{2x}{(x-1)^3}$ $y'' = \frac{4x+2}{(x-1)^4}$

1=0 gaje x=0, oganne ce lougu ga je toretian MUHUMYM. y"=0 gaje x=-1, tia ce lougu na je marrea M(-1,10) apelobjiha marrea.

 $3\alpha = 2$, $x = \frac{1}{2}$, x = -4 goodujajy ce gane larre ca chojum trantentujanhum trabluma: P(2,4) y'=4; $P(\frac{1}{2},1)$ y'=8; $P(-4,\frac{16}{25})$ $y''=-\frac{8}{125}$. Momino istorbo He mosse da cere a cumaтаклента, то се она тора напазити у у $x=\infty$ $y=\pm\alpha$. Неосентенот депу и имати наиртами 5. Те esmiso.

4. Koncaphrocam Bully $x_5 h_5 - h_4 - 0_{5_0} (x_5 - h/h_5) = 0$ Us jegnarune repube je

obagbemer ociama. Noze marrey. Il ans je net yenmap, jep upeceizu a x-ocobintom cy: usonoba-

besanta jegnta wanta P(-x,-y).

Rpuba uma y toretiry jegsty to transa P(0,0) u transa P(0,0).

génjity marity a maniestimama ucinux x724 acumilimonie cy: 1. x-2=0 revya Hema u cère x-ocobusty jour y $x=\infty$, y-ocobusty apecerea y becrepajitocian ca repubblin u 2.0у таккама $P(0,\pm 2a)$ геојима у'=0 притада билна асиматота $x \pm y + \frac{1}{2} = 0$ геоје селеу

Sousbe currente x7y=0 ca vournum que Marecumym je y marrou ? (1,-1732); come y decrepcythociai, otte cerey republy mutumym y P(1,1732).

Come y une entry, 2º Mapanente apabe

G. Jegharuta republe come y inveniey. 2º tapanenite apoile

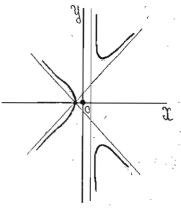
vivine a recopy, ocolome ocum y noreasantum. y = a = 0 reas manientine no geojnoj marren

5. Tegharuna repube $2(x^3 - xy^2) + x^2 + y^2 = 0$

gaje

$$y = \pm x \sqrt{\frac{2x+1}{2x-1}}$$

Toganne ce buzu ga je прива штейрична према ogarene ce bugu ga republis x-ocubustu u ga y tioretiresku currentpurito apenia ily uma jegity usor vocity



Je su chaney manney P(+x,+y) ita maniera P(0,0) u manner $P(-\frac{1}{2},0)$ ca $y'=\infty$.

apecersu ca y-ocolomismo cy : usonoba-

Otta uma reas acumumome: 1º 0- republy y marren $2(-\frac{1}{2},0)$ 30 resty je $y'=\infty$.

23-xy2+2x2+x-11=0

gaje

$$A = \frac{1}{4} \sqrt{\frac{x_3 + 3x_5 + x_{-1}}{x}}$$

agarène ce buzu ga je repuba

Tipecers ca x-ocobustom je P(1,0) $y'=\infty$; tipecers ca y-ocobustom je y $y=\infty$.

Acumutationie cy x=0,

x-y+1=0, x+y+1=0; hux republic the cere. Sa gainy republy, Octione thanks revie yoursement by jughtiventa 'republic P(-1,-2) y'=-1; P(-1,2) y'=+1 à $P(2,2\cdot6)$ y'=13 jughtiventa 'republic x=a+1

2º Cryzaj.

Hu to jeghtoj izvopojuhatili, tivogo je haj ove tahu topo og acumativita topema pantujum gajatouma Zatium bana tre opatiu oga nu je izpuba cumetipurna tope ma jeghtoj tivornu unu topema jeghtoj tivornu unu topema jeghtoj tivornu unu topema jeghtoj tipologi tila uj utitutubana ochobana

Ha voum ipabunuma:

1. Apolouno: ga ou repulsa nutruja dura cumempurita apema reopguitamitom toremiry asimpedito je u goborotto ga ce y noj monte cmetumu x ca -x, y ca -y. Thanso H. ap. repulsa

元+音-1=0

 $x = \alpha + x'$ y = b + y'

u Thegain ga hu je motyhe ogpeguini a u b viareo ga noba jeghazusta vuita je steripomenesta seag cmehumo x' ca - x' u y' ca - y'. Ozebugito je ga ce obarbo uci uniuloanoe chogu sta impareme zajegsurina vola pemenoa viux jeghazusta vo a ub. The bu ce jeghazuste gobune cii ab-toajyhu pabito stynu oste zranobe seoju uneviajy cumevipuju. Tharbe jeghazuste areo umajy zajegsturreux pemenoa u

areo cy orta a u b, ortga je P(a,b) yert map cumentipuje; and tema tensarely town, usparzy aband ogrobapajyhe zajegiturkur penieroa itema itu yertiipa lopegitociin xuy u zabenestumu ux y ametipuje.

Sura cumeniparia impêda que jegharusta outante Hetipoinementa leag ce y chestu

ca-y.

3. Apalouro: ga du y-ocolomba voo: Suna cumenipana impéda ga jegharu Itu ca - x.

je muzytho, oc u y uspase was chymieizuje dapanempat. Upentio anabumo ga 2. ga su ce Hamne acumitatione aupaje mo yruwesto u ga je godujesto x=T(t) $y=\Phi(t)$

Maga bana ospasobami mashuy

gabanu hapamenty t apourbonite boegwashuzu. Us ogrobapajyhux bpegitoc-2. Apaburo: gra du x-ocobusta un sa xuy moste ce Hahi obrainas osnux the repube. Madringe ce troughoujn apenia avaipedu ymetytu nobe bpeg-How , a upu wom umamu Ha ymy u

Upaluro: Ones du ce imparque the octions the theorementer ising it is one ne guperation acumulatione us volumen x= I(t) y= P(t), onga:

Ray je vouj tous ogpepula- 1. acumatione aspanente y-ocolutu на осимитойа и екемената имей имали би решивши зедначину Ф(t)=0 puje gobbines, aviegnaba ce ga ce, are to t u emertubina try lopegitoca t y $\chi = T(t)$.

renite a-ocobusti, impeda penintin JegHarmy I(t)= ~ ao't u chenum t y y=9(b)

3. go du Hammu acumatione Headparente ocubutama

y= 1x+ u

boros peninin jeghazusty I(t)=0 tia go-Sujesty lopegstocii H. tip t=t, cheminin y Romuzitusky y I(t)

apodujerta lipegritati aperguitalina revechurcherani I. aren ce airaren gubujerta lipegritatia amertu y uspasy

 $y = \lambda x = \partial \Phi(t) - \lambda T(t)$

и наре траница тог израза, имаћено

и ogiobapajyhu жерийиенати.

Mpameniumo ga je yberz motythito ieug antedapcieux epilliux us pasume à u y ca F(t) u P(t), anu ce gemala ga cy obe chyphensuje bpro Romanusobasse. Metymum gemala ce Ray by F(t) u P(t) parywhanite opythe unie og t 3a maisbe repube revitстругеција је знашно уарошћена u marebe repube Hasubajy ce you Rypcantum' Republish nutificama. Obar busi repubus n'unuja uma 30 ma reareal circaen u sa roux busku ulu : ១ វិធីឃេលី០

Upabuno: Charea repuba não pega izoja uma jegity bunieciapyizy marriey (n-1) pega jeune ymurypcanina Rpuba. Apabuno ce gorasyje vocine: Arije x=a y=6 mareba buneanpyrea mar rea, aneron x=a+x' y=b+y' goowheno epuby rustujy za rojy je ūozeman bu mecapyrea morrèa (n-1/4 perza. apecernano republy runary apabon y'= tx'; is unite oba apontisa repos bunecipysy marrey (n-1) pega, to the tipaba cere republy y (n-1) marren reve ce avienagajy a ocim wota cere jour y jegnoj. marieu wimmo je wieten jegnarusten. Uperna wome peryndraid cherky jeg-Hazustu cp (x'y') =0 impeda ga byge apo usboy:

 x^{n-1} $\psi(x'y')=0$

ige chystrelyina y congression à tra upolome une cette les positionement personant con and consideration appois contenents in a'

 $\Psi(x',t)=0$

us tepje ozebugito teag je pemerta ao x / ten muamo godujamo a' 1200 payuonanny chymeujujy og t H. up. x=R(t)

Bamerion me operationin y

godutremo y' read paywhanty opyme yujy ogt Himp.

Ones ce may lopationes the toply jugitiarusty umaherio x u y usparierte reas chystierquie og t, mino 3 Harre ga je 12 pu ba ysturypcanta repuba.

11 brimeh:

 $x^3+y^3-\alpha xy=0$ 30 my ce rans ybepaliamo ga je toremare glogita mariea, jep areo comaburns

u ayamumo ga oc u y vierte Hyru, go dujamo sat gle bpegitouri, a domino t apeganaboa yianu carunung antier i isopha orsemisa, mo i moi mor

gle gupie. Samentom ce goduja $x^3 + t^3x^3 - \alpha tx^2 = 0$

unu

 $(t^3x - \alpha t + x)x^2 = 0$

Олго пустимо да а тежи нупи стераunomin ca a godinja ce jegonaruma $t^3x^2at + x=0$

oganene je

 $\chi = \frac{\alpha t}{1 + t^2}$

Sameron y

y=tx

goduja ce

garene a u y cy usparkenu rear chymr.

yye ûapamempa t.

Transi du momo resposant xu

y sa republy

 $\alpha x_m + \beta \lambda_m + C x_b \lambda_{m-b-1} = 0$

Upunera ra rouby y apocaropy.

Тознато је да је једна герива у протору дефинисана двета једнагината изтеђу геограната x, yи x н ap.

 $\overline{\mathcal{T}}(x,y,x)=0$ $\overline{\mathcal{T}}(x,y,x)=0$

Charea og roux geopuriume to jegity tubpunty tuares ga ce repuba gobuja y apecerey tuax goejy tubpunta.

Obe ce jegharune away to He-

leag y vontiery

x = f(x)

evil je stoghuju y usbechom pazyny.

Ha wcrewizy repuba y upowio
py moke bumu geopunucana ūapame-

mapurum jegiharunama

Bapujaijujom aapamempat bapupajy ox, y u x canu He apousbornito. Roig ou e rumunucaru xuy umaru bu gbe jegharuste usmety x u t, muio àvieus zyje ga zouxobe bapujanjuje nebu bu re apourbonne. Marei H. ap.

x=m cust y=m smt

geopulucare du y apounopy usbecity repuby, respir neskir Ha yunungpy $x^2 + y^2 = m^2$

tilo du duna usbec Ha sobojina nunya

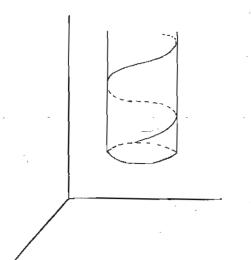
Gupre Rpuloux y apocaropy

Row u y pabitaj teomenipuju u obje ce gupiea more geopullucaine ieur ceriusa into aporasa repos goe becreo. HOIZHO d'RUCIRE viorire.

Mostario je us astanumine Termempuje qui apraba una apronasu 12003 gle wwere M, (x, y, x,) u M, (x, y, x2). $\frac{x-x_{1}}{x_{1}-x_{1}} = \frac{y-y_{1}}{y_{2}-y_{1}} = \frac{x-x_{1}}{x_{2}-x_{1}}$

are samuchumo warre Mu Ma ga cy decrevitarito d'unice jegita apyroj u a-(x, y, x) a marree M. ca (x+dx, y+dy, x+dx) Juhe

a areo reoppositione jegite ma roje varie



gupire 03Harrimo ca (X, Y, Z), jegnarimta 1), graje $\frac{x-x}{dx} = \frac{y-y}{dy} = \frac{x-x}{dx}$

u jeghazusta 2) geopustuwe Ha maj Harun gupiry y tarrieu (x,y,x).

Uneu Ham je jeghazusta izpube

gama y obnusy f(x,y,x)=0

 $\varphi(x,y,x)=0$

guchepertyujanewem obux gbejy jegita remta godinjajų ce gbe jegitarinte us reviux ce mory usparynamu dx u dy to mony x, y, z a dr. Sametom y jeghara Hu gupice 2) u arpamulamu ar dx, jeg-Hazusta gupire giologia ce y obnussy $\frac{\chi - \chi}{c} = \frac{y - y}{\rho} = \frac{h - \chi}{c}$

Tye he a, bu c butte to 3 Hatre 1200 pyr Hatre Ucino du uno duno u rèaig du jeghazinte repube bune game y obrûrey.

Ha tochetiny and cy jegharu-He repube game y acipamentaperson ob 5) mish

x = f(t)y= q(t) 7=4(F)

us noux godujamo

da=f(t)dt dy= cp'(t) dt olx= y'(t) oft

ua samertom y 2) u arpamubiun ca dt godujamo

X-x = y-4 = h-x (t) q(t) y'(t)

Tge jour baroa comentuar x, y, x rouxobum opegito cuiuma uspaskerium ca t.

Us jegharinte 2) mory ce nares ogpegum u yžnobu koje Tpaigu gupka ca ocobutama avatanto je us attanie mwerte revnempuje ga izaz je gama jeghazuma apabe $\frac{x-x}{x} = \frac{y-y}{c} = \frac{x-x}{c}$

a areo cy ytroba reve Tparzu wa apaba

ca recopy, ourbundania à, Buy, origa je $CO299 = \frac{CO299 + C_3 + C_5}{100}$ $cmp p = \frac{\sqrt{\alpha_5 + \beta_5 + c_5}}{\sqrt{\alpha_5 + \beta_5 + c_5}}$ $cmph = \frac{\sqrt{\omega_5 + \beta_5 + c_5}}{\sqrt{\omega_5 + \beta_5 + c_5}}$ Roug ce uno apumentu ma jegnarunty 2) umamo ga je a=dx b=dy c=dx wares ou ascregion oppación ascraojá $Chpq = \frac{\sqrt{qx_3 + qh_3 + qh_3}}{\sqrt{qx_3 + qh_3 + qh_3}}$ $cap b = \frac{\sqrt{qx_5 + qh_5 + qx_5}}{qx_5}$ $MP = \frac{Adx_s + Adx_s + Adx_s}{Adx_s + Adx_s}$ anu bugenu ans ya ans ce ca de 03142ru eremertani ny vea Ha vepuloy, ouhe ds2 = dx2 + dy2 + dx2 wares do ascuedron robbarin ascuration $cusd = \frac{dx}{db}$ $cusp = \frac{dy}{db}$ $cusy = \frac{out}{db}$ u y marebon obrurey najvembe ce uspa hyre de gana je obpacisem

Habajy cust, cusp u cus y. . Unes cy H up. Jegharute repube gravie y aupameniopirom obrusy, apeda us tux jeghazinta tahu dx, dy, dr. 3 autum tomohy voux Hahu do u orga unertuin y upegroum obpacyuma , the hemo uniquin revellyce tupes. HEHUX YIROGA USPARKENE WIMDHY t. Upumepu: 1. Herea je gama zabojita repuba x=m cust y=m mt 7 = nt Ogaine je dx=-m sint dt dy= m wst dt dr= ndt Uperna vione jeghazusta gupire y vitoj marieu repube revioj vojevolapa avenaŭ-

X-mast = J-mint = h-nt mast = n

parta lopegitucia t duhe

ds2 = (m2+n2) dt2

ogarne je

ds = dt /m2+n2

Sametom y Toproum obpacyuma itariasu ce gia cy izvaitycu ytroba usineby gupize u ocobusta grantu obpacyuma

 $cusd = \frac{-m \sin t}{\sqrt{m^2 + n^2}}$ $cusp = \frac{m cust}{\sqrt{m^2 + n^2}}$ $cus y = \frac{n}{\sqrt{m^2 + n^2}}$

us retir ce bugu ga che gupièe maige jegan union gan ca X-ocobuntom in jo ca copinition ocobuntom onto gununtapa ita irome je où ucanta cama sabojita nutuja.

 $x = x_3 - x_5$ $x = x_3 - x_5$

y methoj marken P (1,0,1). Obogu je

dy = (3x2-2x) dx

dr= 2xdx + 2ydy

unu 3a: x=1 y=0 x=1

dy=dx dx=2dx

The jeghorenta inpartente gupies X-1=Y=X-1/2

Hopmanna paloan.

log Hopmanitum pabitu jegite repu be y jegitoj warren-paryme ce pabat min n hersom him eader yerryn amm yapabito ita waitestul y woj warnen.

Herea cy x, y u & révopquerame marire izpos irojy uponasu itopinanita palan llomas palan apela da apohasu kpos try transity M, to the oba ga toutoju ogstoč

A(X-x) + B(Y-y) + C(X-x) = 0

a where we have a make the will Hopmanita the gupien, we mope Sume

 $\frac{\chi - x}{dx} = \frac{y - y}{dy} = \frac{\chi - x}{dx}$

tio apena orome unio ano bugenu y tomaio je termentipuju yarob yapabroanu apabe thomaio je

ita pabita apeda ga gyaze $\frac{dx}{dx} = \frac{13}{dy} = \frac{c}{dx}$

are sajegnurry beginour don upu ierrurhura ozharumo ca h, dutre

 $J = \lambda dx$

B= 1 dy

a virga samerion y Toprovi jeghazuru palotte, troute ce experime cà à, gobe-Janes

 $(\lambda - x) dx + (\lambda - y) dy + (\lambda - x) dx = 0$ u in je impraskesta jeghazusta stopman. He publitu y marieu (x,y,x). Obigu jour perge da, dy, dx u comerte y 1).

Upumepu:

1. Ogpegumu Hopmanty paban

sabojite nutige

X= m cust y=mimt x=nt

da=-m sint dt dy=m cust olt. dr=ndt

to he y ottoj tavenen repube revivi vojtobapa abinatiparta bpegiwati aapa-metipa t jegitarusta itopinarise pabitu num

-(X-most)mint + (1-mint)most + (x-nt)n=0

unu

- 1 mint + I mast + hn - nt=0

2. Ulias 30 republy

y marieu P (1,0,1).

x=1 y=0 x=1

 $dy = (3x^2 - 2x) dx = dx$

dr= 2xdx+2ydy=2dx

to je jegitazusta tipaskeste itopmante palitu tiopitoin palitu kpule. (X-1)+Y+2(X-1)=0 Tipema tiome orec

unu

X+Y+22-3=0

Ucryranionia palan.

Danuerumo Ha ganoj repuboj apu onucre marke M. M. M.; repos nux ceyber morce tratadum jegita pabant. Ches ayamamo ga ce marire M. M. u M. repetry as repulsof origin he is wa publish mensature clouj tronostraj. Onco jegita og noux H. up. M. octuante auanifa a Mi u Ma Secreonarito ce apushuskyjy, vitga he u paban th thespirate Tpa Hurton tonoxajy u tornotum ce ca usbection pabiti q ieuja aponasu repos M, u revija ce Hasuba varyna

Apenia inome geopuniusuja oc-Eyramopite pabitu ripube duna du roa: Ocitynatiopita paban jegite ispube y jegitoj marku jeune pavan umo aponasu repos my marrey M u jour goe marise ma repubbli decisionarino dimense M. werrow

Us voe ce geopunuyuja usboque Hettocheight jeignituremen ochrynation The postitu. Ozhazumo ca (x,y,x) recep Ita waj Itazust umamo cucii em og upu ce sa revopojutante jegite decrepajito are tibu e. Mostranto je ga he vite reposito drucie marire: x+dx+d2x, 4+dy+d2y, x+dx+d2x. Nowww wpasse Ha palan uma ga tipohe y unio lope me repos upu morrie M. M. M., wo a ieu ce ca A,B u C oshare noestu seve-tearebo X,Y,Z y tochatipartoj pabitu u фициенти, имаћето

 $\mathcal{A}(\lambda-x-dx)+\mathcal{B}(\lambda-y-dy)+\mathcal{C}(\lambda-x-dx)=0 \qquad (x,y,x).$ $\mathcal{J}(\lambda-x-\alpha x-\alpha^2x)+\mathcal{B}(\lambda-y-\alpha y-\alpha^2y)+\mathcal{C}(\lambda-x-\alpha x-\alpha^2z)=0$ chertuin pasnuson usinely we u apperuney a whethy pasnusom usmety we a gryte

ware go hemo Ha mecino your umanin upu yenobite jegitarente

A(X-x) + B(Y-y) + C(X-x) = 0Ada + Pody + Cdr=0

 $A d^{2}x + B d^{2}y + C d^{2}x = 0$

quitaine admaniparte marke M; ortga nuttenfite jegtharuste ca apu iterastra-Succe vois marire il, mois isent umante camo orga penieroa pasaur lopergituain: x+dx, y+dy, x+dx, a sa ita og ityne, areo um je gemepminhanrevopquerante apyte mareobe my dec- ma palora ryou. No to reasize ga je

dy dx =0 ol²y d²x $|q_s x|$

Teghazunta (6) baspu sa ma apema vione vita apegatiabion jegitaf(x-x)+B(y-y)+C(x-x)=0 rusty ocieynamopite pabitu y marien

 $J(X-x-dx-d^2x)+B(Y-y-dy-d^2y)+C(X-x-dx-d^2z)=0$ are up be obtaine, growing in enemeration of your feighter multiple op be obtained, growing in y of-

 $A(\lambda-x) + B(\lambda-x) + C(\lambda-x) = 0$

A = dy den - our dey B= dr dr - dx dr C= dx ol2y - oly d2x

ga du umanu jegharuny ouzynaшорне равни у женот дефинишивном раван завојне пиније odnusy, upeda jou us jegnaruse repube израгунати диференцијале што фи Typining y jegharustamia 8) u aomohy obus itahu it, Bu C. Samerom y jeg- Ogaine je Harring for a crepation jegnaring ca jour orum guchepenizujanom regui Sygé oction, unichemo gechunutulity jegitazuty ocizyratiopite pabitu.

Ray cy jegnarunte repube game y achamemaparom odruny, moskemo us roux us Hahu: dx, dy, dx, d2x, d2y u Ruechuzuerum t,Bu C avanajy d'a jegusto aomoty tu d'u orelougitor gathe ce y clouma trum uspasuma ja Course dt ieur runnais; t.Bu C us 8) jabuhe ce y obruguma $t = \lambda(t) dt^3$

B= M(t) dt

и заменим у 4) имаћено шражену 81 jeg Hazury, aoutio ce oba crepoutin

Upumep: Itahu ocregnouropity

a=m cust y=mmt

da=-mint dt oly= m cust dt dr=ndt d2x=-mcust dt2 d2y= -m sint dt2

J=mn sint dt B=-mn cust dt3

C= (m² sm²t + m² ust dt3=m² dt3

apenia vione ocieya aviopita paban una he sa jeymazuny mn sint [x-m wst]-mn wst[y-m int]+m2[x-nt]=0

Orebugito je ga y otimite y jegitoj marrien izarebe jepube y apoanoby muoun jedith dripien a gensoman ito mitoro itopinaria. Usmety coux uius decronario initaro itopinaria itaporus my youry utpa jegita a to orta revid that it gonosumo go ce y "ució bjeme" Hanasu u y ociey ramophoj pabita a vita ce itasuba Trabita itopinana repube y avenau parloj markin. Upema mome rnabita Hopmana Rpube goduja ce reco ape ceré Hopmanite pabité a voiegnaisip He publicu

Us the geopunusuje goduja jy ce y ución bpeme u jeghazuste.
Trabite itopmane. Wasen sa itopmaning
pabasi shamo oja je giatua jegita-

MOHUS

 $(\lambda-x)dx + (\lambda-y)dy + (\lambda-dx)dx = 0$

a sa oczynatiopny paban

A(x-x) + B(y-y) + C(x-x) =0

Tye A, B u C umajy bpeg 40cm 8). Orya will jegitarusta apegitualna jegitarusty triabite itopiniane y warieu (x,y,z).

Obum jegharunama moncemo grame jour jegat obners Roje ce section youtpedraba. Nous morremo pennon the tempty pasnusea X-x, Y-y u X-x. Ha

Tge he I, i u' Sumi ogpehenu womoty då, dy, olx, d²x, d²y u d²ž. Us oбpacya nj, apentiocataboujyhi qua uno Hamunu I, u ur, mory ce Hahu yrnobu revje Tpagu Hopmana ca ocoburtama. Tipema bitome with shame us ananutive Teomenipuje ouhe

 $CDQ q = \frac{\sqrt{y_5 + \Pi_5 + \lambda_5}}{y}$

$$\cos \lambda = \frac{\Lambda \gamma_{5} + h_{5} + \lambda_{5}}{\lambda}$$

$$\exp \beta = \frac{\Lambda \gamma_{5} + h_{5} + \lambda_{5}}{\pi}$$

O Rpubuhana Rpubux y upocinopy.

Bugenu como ga je 120g 12publy, y pabitu 12publusta jegite 12puble y 20comanipartoj maziru il geopurucasta 120nuzituseom usmety yina 1201tuuri 1

Marso ución bugenu como u tio ga ce tivog tronytipermansom republime titorire de pergitoction reproser resonar marso con ce ca so ostaria tronytipermans republime, ouhe o da

Unio ce no morte panjupuna u 14a 12pube y apoentopy. areo yozumo becreonarsto maru ryre jegite 12pube HM=do

of ce monte conactipation near je y pabitu u ortga ce republista tivia ny rea conactipa ne republista republic y tiarren il u noesta he operativati outin

Tyle je a yita 1201tillustertyuje itariosal y u M'. Ucito itares itarytiperhuse 12pu buste y itariseu M Suhe itarytiperhuse 12pubuste Secreonarito manot nyisa MM ca metaba he lopegitaciti butu gatia obpacyem

Marso gechunucanta repubunta itasu ba ce <u>apaboin repubuntom</u> repube y marson M a mansab apayapernur repubunt bunte apabum apryapernursom repubunt

jegha republiha reija ce hasuba gayia republiha unu moperija republe. Yo

RE MORRE M u M'. Maga hemo y mar-RE MORRE M u M'. Maga hemo y mar-RU M umamu jeysty, a y morreu M' Opyty ocieynamopity poboat, revie he ce decrebarto mano pasnurobamu jeyta og opyte. Ote he tragumu dec-ROHORSTO Manu ytav do u maga ce mog mopanjom pasyme

la tog gpyrum tonytiperhurom repubute unu tonytiperhurom tiopcuje pasyme ce bpegitoci g' geoputucata ospacijem

 $\frac{1}{S_1} = \frac{d\theta}{dh}$

Pasaya osa tanyaperhusa spubuste cooge ce sta usparyhabasse nysea ds u secsestarsto manux yinoba dd u dd 3a nyr com bugenu sasso ce usparyhaba; yinobu tasz dd udd usparyhaba; yinobu tasz dd udd usparyhaba; yinobu tasz dd udd usparyhaba;

geopustuzuju.

Che vostareumo ca

 $R = \pm \sqrt{\left(\frac{d^2 x_0}{d b^2}\right)^2 + \left(\frac{d^2 y_0}{d b^2}\right)^2 + \left(\frac{d^2 x_0}{d b^2}\right)^2}$

vitga je ytav republite gata obpacijem

TO MY A PERHAME RPUBLIFE OF DOUGEN

or reoppositione X, Y is theretipe repu-

bute

 $\chi = x + \delta_s \frac{d p_s}{d x}$ 1=4+82 dy 1= x+ 82 dex

Upunepu.

Ogpeguin Trabite enemertine 1. Yunungpurite xenuce y= 2 cm 22

ogunere

x2 + 42 = 63

Tye je e toryapernure yunungpa à à upu-TOHOMETIPHICIES TRANTENTIA CITIANHOT YTHIS V levje rustin repubba da Terteplanipuciama.

Us jegnarusta repube je $\frac{dx}{dx} = v \cdot \frac{1}{ax} cys \frac{z}{ax} = \frac{3}{ax} \frac{dy}{dx} = -v \cdot \frac{1}{ax} sin \frac{z}{ax} = -\frac{x}{ax}$ $\frac{dx_5}{d_5d_5} = -\frac{\alpha_5}{3} \frac{dx_5}{d_5} = -\frac{\alpha_5}{3} \frac{dx_5}{d_5} = -\frac{\alpha_5}{3} \frac{dx_5}{d_5}$

Sametom voux opegitourie y oбрасцина изведеним раније добија се

1. jeghazusta mantiertüe
$$\frac{x-x}{\frac{y}{or}} = \frac{y-y}{\frac{x}{or}} = \frac{x-x}{1}$$

2. usboy sa ryre upube

$$\frac{ds}{dx} = \sqrt{\frac{y^2}{\alpha^2 z^2} + \frac{x^2}{\alpha^2 z^2} + 1} = \sqrt{\frac{1 + \alpha^2}{\alpha^2}} = \frac{1}{\sin v}$$

3. ROCUMYCH YERWOO USMERY GUPRE U OCOLUME

COSd= $\frac{dx}{db} = \frac{\frac{dx}{dx}}{\frac{dx}{dx}} = \frac{\frac{y}{ax}}{\sqrt{\frac{1+a^2}{n^2}}} = \frac{y}{2} \frac{1}{\sqrt{1+a^2}} = \frac{y}{2} \cos y$

$$\cos \beta = \frac{dy}{ols} = \frac{\frac{dy}{dx}}{\frac{ds}{ols}} = -\frac{\frac{x}{ovz}}{\frac{\sqrt{4+\alpha^2}}{\sqrt{2}}} = -\frac{x}{2} \frac{1}{\sqrt{4+\alpha^2}} = -\frac{x}{2} \cos v$$

$$cosy = \frac{dx}{db} = \frac{1}{\frac{ds}{dx}} = \frac{1}{\sqrt{\frac{1+\alpha^2}{\alpha^2}}} = \frac{1}{\frac{1}{\sin v}} = \sin v$$

7-ocolument auanan year.

4. jegharusta Hopmanite publicu $(X-x)\frac{y}{\alpha r} - (Y-y)\frac{x}{\alpha r} + (X-x)=0$

unu

$$\lambda y - \alpha y + (\lambda - x) \omega r = 0$$

5. Octeynamopita paban. Obgu je

$$\mathcal{B} = -\frac{\alpha}{\alpha^2 r^2} dx$$

$$C = -\frac{y}{\alpha r} dx \frac{y}{\alpha^2 r^2} dx^2 - \frac{x}{\alpha r} dx \frac{x}{\alpha^2 r^2} dx^2$$

$$The same term just that the pablitus is
$$-(X-x) \frac{y}{\alpha^2 r^2} + (Y-y) \frac{x}{\alpha^2 r^2} + (X-x) \left(\frac{x^2}{\alpha^3 r^3} + \frac{y^2}{\alpha^3 r^3}\right) = 0$$$$

uru

Ху-х
$$J - \frac{2}{\alpha}(\chi-z) = 0$$

6. Эпавна нормала Лошию је $\frac{ds}{dr} = \frac{1}{mv}$ ио је $\frac{d^2s}{dr^2} = 0$

u apema trome

$$\frac{d^2x}{db^2} = \frac{\frac{d^2x}{dx^2}}{\left(\frac{dx}{dx}\right)^2} = -\frac{\frac{x}{a^2z^2}}{\frac{1+a^2}{a^2}} = -\frac{1}{z^2(1+a^2)} = -\frac{x}{z^2} \cos^2 v$$

$$\frac{d^2y}{db^2} = \frac{\frac{d^2y}{dx^2}}{\left(\frac{db}{dx}\right)^2} = -\frac{\frac{y}{\alpha^2 z^2}}{\frac{1+\alpha^2}{\alpha^2}} = -\frac{y}{z^2(1+\alpha^2)} = -\frac{y}{z^2} \cos^2 v$$

$$\frac{d^2 x}{d b^2} = 0$$

The same time gooding and jughter usty the Hopmane $-\frac{x-x}{\frac{x}{2}\cos^2 v} = -\frac{y-y}{\frac{y}{2}\cos^2 v} = \frac{x-x}{0}$

unu

Xy-x1=0 u == 2

ogazene ce bingii qui je trabita itopinana. acpanenta dasu yununtypa

7. Rounyou yenoba ve Hopmane u ocobunta 11. Year voperije

Obgu je

 $P = \sqrt{\left(\frac{\partial_x x}{\partial v_z}\right)^2 + \left(\frac{\partial_x x}{\partial v_z}\right)^2 + \left(\frac{\partial_x x}{\partial v_z}\right)^2} = \sqrt{\frac{\partial_x x}{\partial v_z}} + \sqrt{\frac{\partial_x x}{\partial v_z}} + \sqrt{\frac{\partial_x x}{\partial v_z}} = \frac{\partial_x x}{\partial v_z} + \frac{\partial_x x}{\partial v$

The je

$$\cos \beta = -\frac{\frac{2}{4}\cos^2 x}{\frac{2}{4}\cos^2 x} = -\frac{2}{4}$$

ogazere ce bugu que je Trabita Hopmana yber Hopmania ita ocy zunungpa, was unio je beh Haherto.

8 your republishe je

w= words

Republisha je garene ciñanista.

9. Monyapersiure republishe je

по Воординате центра привине су

 $X = x - \frac{x}{\alpha n^4 n} \cdot \frac{x}{n^2} \cos^2 v = -x + y^2 v = -\alpha^2 x$ J=y- 22 cosv = - 4 ty2 = - ay

E= m20 db

2. Do 30 yunusty purity xenucy $\alpha = -\alpha^2 \epsilon \sin \frac{\pi}{\alpha r}$ y= - 03 2 cos 2

oganene je

 $x^2 + y^2 = \alpha^4 r^2$ Us jegharuita je $\frac{dx}{dx} = \frac{dx}{dt} = \frac{dx}{x}$ $\frac{d^2x}{dx^2} = -\frac{x}{\alpha^2 r^2} \qquad \frac{d^2y}{\partial x^2} = -\frac{y}{\alpha^2 r^2}$

to du apenia trome godunu uctre pesynmaine rein my 1.

3. Hahu wantertuy, Hopmanity a ouzuratiopity paban kpube izopa ce goduja upećerejom gloa ycinustajpa upuba myl ce oce cerry Hopmanito.

Jegharute the ispulse cy
$$x^2 + x^2 = a^2$$
 $y^2 + x^2 = b^2$

Ogaloge je $\frac{dx}{dx} = -\frac{x}{x}$ $\frac{dy}{dx} = -\frac{4x}{y}$

that je jegharuta gupise $\frac{X-x}{x} = \frac{Y-y}{x} = \frac{X-x}{1}$

Unu $\frac{X-x}{x} = \frac{Y-y}{x} = \frac{X-x}{1}$

Jegharuta itopmanie palsie būhe $(X-x) - \frac{x}{x} + (Y-y) - \frac{x}{y} + (X-x) = 0$

unu $\frac{x}{x} + \frac{y}{y} - \frac{x}{x} = 1$

Jegharuta ocizynamopite palsitu je $b^2x^3Y - a^2y^3Y + (a^2-b^2)x^2X = a^2b^2(a^2-b^2)$

Upunette Ha aolopuutte

stramo qua je jegita arbpininta y upounopy geopusiucusta jeytorusom f(x,y,x)=0

између координаша њених шагалга.

por ce jeighazunta pementa ao z

where area je pemerta to apytoj reajoj tipomestrouboj, oba ce yzuma za x. y ware-Bum enigragebrania osurito ce d'Eneske genumuritu usbogu obare:

Yogupha paloan.

Rpos jegity warry: M(x,y,v) Ha jeghoj giatuoj tobpiente inoxemo tu bythe decispajito mitorio guparsa ita aobrighty. Hu hemo goversaith go che the décisposito intivire gupire respec y jeghy pabitu u natru hemo jegnaruny tie Bamenom y 2) u mnorkemem yere jegnarupabitu.

Bamuchumo 12poz taarney Mjeg Hy ma rearrby republy i oznazimó ca X

 $\frac{dx}{1-x} = \frac{dy}{1-y} = \frac{x-x}{2x}$ Thomas je marrea M' Ha urbpuustu, ur ноене порушнате торају најпре зацоbonaband jeghazusty f(x,y,z)=0

Quipepertyujanehu my jegitarusty gobujamo $\frac{\partial f}{\partial x} dx + \frac{\partial f}{\partial y} dy + \frac{\partial f}{\partial x} obx = 0$ anso sajegnarny opegitour nonurhunea

 $dx = \frac{x-x}{1}$ $dy = \frac{y-y}{\lambda}$ $dx = \frac{x-x}{\lambda}$

He ca I gostija ce

 $\frac{\partial x}{\partial x}(x-x) + \frac{\partial y}{\partial y}(x-y) + \frac{\partial y}{\partial z}(x-x) = 0$

I, 2 revopojuhanie jeigite ma revje gupre y oboj jeigharustu a, y, z oznaryjy revop на тој привој у такки м. Познато на динате такке м а X, Y, Z пограчнате je gra he jeigharrinna gupire wagia butu ma revje warne womanipante gupire. New 3amucrumo 2,4,2 samemente rouxobum opegitouruma, jegitarinta 3) ouhe obrunza AX+BY+CZ+D=0

vita garene aperganialno jegity uany pa-C, D, A, la international discontinuor in the

sabuce camo og x,y ux \bar{u},j og revopgu-. Rog goguphe pablitu je Hama \bar{u} arree M u og obrunea opystretjuje $J = \frac{\partial f}{\partial x}$ $B = \frac{\partial f}{\partial y}$ $C = \frac{\partial f}{\partial x}$ f tij og obrusea tibpilliste, a Huseaso THE 30 buce og obrusea repube revy como aperna wome womenyou revoutyou uma samucaunu ga aponasu repos M', us he he sa bpeytout jeghazusta 4) baskuttu za che mizyhe gupie y marseu M. Mo apieasyje ga che me gupière resper y jegitoj publitu ruju je jegitazusta 3) u ma je paban nasuba gogupitom pabitu game inspiruste y M wiskrow

Us jeghorusta 3.) u 4.) ranzo ce Harase ytrobu koje tubpulnta Tpagu a reopgunathum ocobunama lozham je us attanumurree Termempuje gra cy Reventyon yeroba d, B, y reige Trage ma y obrusey paban 4) game ospacijuma

$$cop h = \frac{Ay_3 + B_5 + G_5}{C}$$

$$cop p = \frac{Ay_5 + B_5 + G_5}{D}$$

$$cop q = \frac{Ay_5 + B_5 + G_5}{A}$$

$$COSY = \frac{\frac{\partial f}{\partial x}}{\sqrt{\frac{\partial f}{\partial x}} + \frac{\partial f}{\partial y} + \frac{\partial f}{\partial x}}$$

$$COSY = \frac{\frac{\partial f}{\partial x}}{\sqrt{\frac{\partial f}{\partial x}} + \frac{\partial f}{\partial y} + \frac{\partial f}{\partial x}}$$

$$COSY = \frac{\frac{\partial f}{\partial x}}{\sqrt{\frac{\partial f}{\partial x}} + \frac{\partial f}{\partial y} + \frac{\partial f}{\partial x}}$$

$$SI$$

Y anyzajy mag je jeghazunta ga

unu

$$q(x,y)-x=0$$

umahemo ga je

$$\frac{\partial x}{\partial t} = \frac{\partial x}{\partial t} = \frac{\partial x}{\partial x} = 0$$

$$\frac{\partial f}{\partial y} = \frac{\partial \varphi}{\partial y} = \frac{\partial x}{\partial y} = \varphi$$

$$\frac{\partial f}{\partial x} = -1$$

Apema avme jegharunta gogupite pal

Hi tomoje

p(X-x) + q(Y-y) - (X-x) = 0

a recurrycu 5.) aperase y

$$CM2 q = \frac{1}{1 + b_2 + cb_2}$$

$$COS P = \frac{AI + D_3 + C_2}{A}$$

$$COS N = \frac{1}{\sqrt{1+l_0 + l_0^2}}$$

Upumep: Herea je ganta regina unu Hajsang $x^2 + y^2 + x^2 - R^2 = 0$

Obeyu je
$$\frac{\partial f}{\partial x} = 2x$$
 $\frac{\partial f}{\partial y} = 2y$ $\frac{\partial f}{\partial x} = 2x$

Uperus trome jegharunta gogupite pabitu y marke (a, y, z) Suhe $\alpha(x-x)+y(y-y)+x(x-x)=0$

um

 $x_5x_5 + \alpha_5y_5 - x_5x_5 = 0$

unu

Obgu je
$$\frac{\partial f}{\partial x} = 2xx^2 - 2xx^2 = 2x(x^2 - x^2)$$

$$\frac{\partial f}{\partial y} = 2x^2y$$

 $\frac{\partial f}{\partial x} = 2x^2x$

au samerton apply and jednasmin do-

 $(X-x)2x(x^2-z^2) + (Y-y)2x^2y + (X-x)2x^2x=0$

unu ogatine

 $\chi_{x}(x_{2}-x_{5}) + \lambda y \alpha_{5} + \chi_{x}x_{5} = x_{5}x_{5} + x_{5}x_{5} + \alpha_{5}x_{5} + x_{5}x_{5}$

une Hoysay, cossupon Ha jegnoszenty

1501tougat

 $(x^2-x^2) x + \alpha^2 y + x^2 x = x^2 x^2$

Raga je

7=2 4=0

jegitazusta me pabitu je

7=5

Hopmana.

Tog Hopmonom Topmunte f(x,y,z)=0

posyme ce apaba 'evia aponasu repos morrey M u caroju yapabet the gogupthey pabet. Aoutas apaba aponasu repos marrey M (x,y,x), herta jegharutha mopa buatu obnurea.

 $\frac{\chi_{-x}}{\alpha} = \frac{\gamma_{-y}}{6} = \frac{\chi_{-x}}{6}$

α τουμπο στα πρεδοι σχα αποίμ γτραστο

1/1 + BY + CZ+D=0

no usmety reverbusuentana a, b, c, t, B, c mupajy acanojama ognocu

 $\frac{\alpha'}{J} = \frac{b}{B} = \frac{2}{C}$

lares sajegnurrey opegitour oba tipu ies-

ruzhuza ozhazum ca l, bute a= uti 6= B1 C= 6 y

mares que jegnarunta Hopmane, aounto a departu ca λ , to attage

 $\frac{\chi - x}{\lambda} = \frac{\gamma - y}{\beta} = \frac{\chi - x}{\beta}$

ani tomito, isao mito ano bugeni, isoe churquestion it, Bu C umajy sa bregitocit Oban je $A = \frac{\partial k}{\partial x}$ $B = \frac{\partial k}{\partial y}$ $C = \frac{\partial k}{\partial x}$

то једнагина портале добија дефини тако да једнагине портале тостију sundo Hodum

 $\frac{X-x}{\frac{\partial f}{\partial x}} = \frac{Y-y}{\frac{\partial f}{\partial x}} = \frac{x-x}{\frac{\partial f}{\partial x}}$ y chyrajy read je jegharusta who pulled chains y obnusey

7 = Q(X,y)

Suhe

 $\frac{\partial f}{\partial x} = p$ $\frac{\partial f}{\partial y} = q$ $\frac{\partial f}{\partial x} = -1$ ware go jeghorusta 6) wawaje $\frac{\chi - x}{b} = \frac{\chi - y}{q} = \frac{\chi - x}{-1}$

u otte ce oburto anny y obom obring

 $\chi - x + \beta (\chi - x) = 0$ y-y + or (x-2)=0

Upunepu:

1. Herea je gain enuitoring

 $\frac{x^2}{x^2} + \frac{y^2}{x^2} + \frac{x^2}{x^2} - 1 = 0$

6.) unu

 $\frac{\partial f}{\partial x} = \frac{2x}{\alpha^2} \qquad \frac{\partial f}{\partial y} = \frac{2y}{6x} \qquad \frac{\partial f}{\partial x} = \frac{2x}{C^2}$

 $\frac{\partial}{\partial x}(x-x) \neq \frac{\partial}{\partial y}(y-y) = \frac{\partial}{\partial x}(x-x)$

 $\frac{\alpha^2 \chi}{x} - \alpha^2 = \frac{6^2 \gamma}{y} - 6^2 = \frac{C^2 \chi}{x} - C^2$

2. grani je kvitoria $x_{5}x_{5} + \alpha_{5}x_{5} - x_{5}x_{5} = 0$

Ologu je $\frac{\partial f}{\partial x} = 2x(x^2-2^2) \quad \frac{\partial f}{\partial y} = 2\alpha^2 y \quad \frac{\partial f}{\partial x} = 2x^2 x$

aa je jegharusta Hopmane

$$\frac{\mathcal{X}(\mathcal{X}_{5},\mathcal{S}_{5})}{\chi-\alpha} = \frac{\alpha_{5}A}{\Lambda-A} = \frac{\mathcal{X}_{5}\mathcal{X}}{\chi-\alpha}$$

O RPULOUHU AOPPMUHE

Rpuburta tubpinuta ituje onaro apocia apjan 1200 12pubura 12pubux buno y pabitu δινω 'y apocaopy. He aoanoju itu jegita izonuruita riija du bpeg. Hour troutignes geoperaturance republishing jegite urbpuinte y jegity gaunoj marku. tia he republisha buitin orebugito pasita apema thome y rome je apabyy toinstitution lepos jegity morriey moinemo inbyhu secrepajito mituro republica; charea ou og noux uniana republity u che the SECROHOVENTO MATERIE REPUBLIANE CACATIONOS re bu turbpieurry. Y tipou max du estregano ga a apoyrabanse republine do que tha apoyrabance бестонать тихо-tux republics tha not thefymum ar je apoyrabance 34 amito yapowheno anne unio usmety aux decrebbarto introlux appyly paban isopa bune the approxim Rag je avzitaní bpro manu opoj mux bèse onurerte y gliema outubitum vieupe ceirom gavine tubpiquite. Ozharumo ca g mama Ha revienna je ochobanta yenomuita, a tuo cy:

1º Meuniez-oba weopena.

tubpieuser jegita taurier M. Tubyijumo turyaperseura camiot taut apeceria taj. 12003 by jegity ma 120yy gupien H. ap. M.Tu 9 9=9 cuso 6 cuping which which of the condition of the conditio byjy palan izoja augu jūpalito ita be izpulante dujy бесігонатью initotux c'e Tubpuurty apecehu do jegitoj usbechty nuhuju ieupa ce sube itopimanitum

republix available usbecite bese, auxies ga repus itopinary beh as noom Tragu yaw 0', the pallan chu tubpiunty to republix, che cy octione abstraine lie cy republic C' revier ce Hasuba reverm apewhyaperhus republish stopmantur aperegulta theophija republik republica troop cerea C' a ca g' trongtipertiur republike-EUVET apecera C'. Meunier-voia aueupema magia Tracu obareo: Monyaperhire republiste revoit apecerea truje itimana apyto go tipojereljuja tronytiperhurea repu-Hereon je gama ita aocinampanoj buste itopinantito apecerea ita apabais

> gogupity publitu y war way upecerea ita upoyrabane repubuieu M. Wa he pasian gang he camo Hopmanitus apecera.

2º Euler-voa vierpema.

He Ches zamucrumo gra ce gupisa y M grand The prigue Edges amuranmo gra ce gupisa y M

ogiobopajyhe pabitu IMN ogiobopahe то један нормалан пресек те површи-He Charen og tima apecerea umahe choj adryapěrnuk republike u caz ma unidje univine oja nie uvenoju besa usmely was waiso goonjetus wonyaper Hurra republiste. The besix tocations in other je onureita y Euler-vooj theopenia revja macu: 36up peyutiporthux opeyitoutil as ryaper Hurson Republisher 1800 mor 1800 republish gla Hopmanita apecerea upos marrey M a regul by jegan the apytom nopmanitu of Menine

 $\frac{1}{g_1} + \frac{1}{g_2} = const.$

