Kous possemmi Bonnos 11.

Arperariore corramis beyerba. Terolus patrobecus apas.

Al serius na reanius passua rasa, missione u resporso reca

Kanniagnie alsenie. Pozodne hejexoru reptoro u fronoro pora

Duarpanium ecerpanius. Konsurenne alsenius hou epasoono reperoras

Argenerane cocroance

Enu rain TC ospagolann pagnurunum luyerolanu, ro na rpormisax paggula sous raineri mongr stress strenur c riporenamen xumurenus peanisms.

Enu - symme u ren me lenserbox, ro repexoy verez rommen ne composomegnens x um. peanignem, no mon sou wirodime berenta montes uzmentosa

Opro u po me benjerto moner hasognone b coco osmero, ormeranoupusce gega or ypyra no chome pazaremen, l neptyro oreser
versenune acum dos cream. Tanne co croamme maz, asperarmen cocoormani. Thepsoe, muscue, vazoospaznoe, muzua (cumo no monazupolamment vaz i binonost ontocurament not noment parmen zapamenten.
raisur, noroprie b yenon superpuremen nestiparen.) Cherriquiremen:
heri promial muquaro u bosponge man praqua.

reflummous arouel a movement, is no repris on leveros courses.

Taz muguero: rairingo colepularer saorure mos mergnasanne germanie. Theppare b-la: novelaremense plumenne onsvo no concerne pabrobenne.

Brungowas, l'orman or rapol, parenoune mempy moderneme epolaneme e us parmepanne a northyramora mepene l'amont solve de parmena no lamane e mepener ux remotors plumenu. Penus ba glumanne moment muynora zarpypum no upatemno e moderneme moderne moderneme suprement byannoset de novempe muynora reportations que cospanement perce ruloit memoranque meta apparent apparent suggestiones sur cospanement partie rouno nenoropoe ynopayo unhe nonomente suggestional marine surgressione (summente paron), l'orman or plepson pour purcuium remos rul (paramente nopayon), l'orman or plepson purcuium compane un parone muynos muynos

thopopme rain zammanor hypomenison mor normand memby hymit an inversement revain a maybortalin. Due has bapantymo donothere more coxpanent gropm, no you took us arour he objection you pergorening aparation anyo appended.

Roupeast man Consoc N2

Meranne and dos or mugaus apurand sough k about than mugans on no y mus, row me has a y theppor res, xapaver no have a forme and of the land of the former of the comment of the sought mayour appropriate the sought of the sought of the comment of the sought of the south of

Dynamy a rolly me asperarmousy was runne many cookers tolan heurouter paperarmy no down it - law word much bymow a roro me 6-60.

Youdand palmobeans pas

Manpoonenweden rais yen (l-la), menual agropsymms of uzum - x mu remunt word, may pagais.

Com graph oppopped to how romans, to rank PC saper operations, even -us player (u save) promurantus memopy wo of operations operations for mine PC. Have operations to be be before the observations for mine by the payment of the observations for mine by the operations is sold operations operations and the operations parameter women to anoportive meseria, considered us memore has operations parameters are upment of many parameters of the operations payment of the operation of the

Tennobal polubeur: T1 = T22T

Merannemoe palas lecue.

P2 = P1 + DP12,

y unique.

Eun orner spanner passera que moumen, ro DP1, 20 u so quadre corner subulamenta paternos subserios tablement ho osse comon yamen pasqua que: P2 2 P12 P.

Horge omohiom napamerpann cureum all Tempunger a polium , que omicanne unsern aprimenter sepunguname.

G=U+pV-TS

Therenny representation novempeator was orrowence represent naturement not used payor IC is made took apayor

$$\Psi(p,T) = \frac{G(p,T)}{m}$$

The chazolar apelparamens nampue us pas all current chepernent marrois.

Due yeros ruloro palnolecul suoro opoquar une em synoro u roro me l-la neolo opuna oregent ne suarpomonuremeno repensia monera sono l-la repez l-la us Oquar opusa l'appropri Bozumanolecul noronol l-la repez romano parament paramento paramento paramento paramento reputationar paramento reputationare morempana ((p,T)) (um ture nos univarial paramento reputationare cropon o morempana ((p,T)) (um ture nos univarial paramento.

beg, unsoylupose open openandors junemen p ut nampne uz no ropors unell macro m, u mz, x ap- u municupusor [lpnopmanne mon horemsnama.

We $\psi_1(p,T)$ u $\psi_2(p,T)$, former reprogramment november 1- or u 2-br open coorder rums.

En m=m1+m. + heurnemma, no soo muchu endulaneumo quolimo eno neuroumman upu uzuenemma hanor operz.

Eun nava to 1-out page granomaera na sm, ro lozpairaer

Eun 4, > 42, 10 min 6(p, T) - nou palemore nous warren

ann 41642, no - loper page.

Bosous Cupaers cureua repersoyur l'ognopazna weroame à

polassiana Tomm ospanon, que osemerenne groot ruboro polassiano extenso nomedolas polemos a exentnos repus peranurennos normanol:

Momes dos spegnalieno lluge: p=p(T

Eur pamera parecea muranos a rara - noutre unaperme Eur spannera parecea muranos a resposo reva - noutre maldenni. Ognano unoustopme novemprando le populares aparas monto Tua paremenna.

1. Emy

$$\left(\frac{\partial \psi_{1}}{\partial T}\right)_{P} \neq \left(\frac{\partial \psi_{2}}{\partial T}\right)_{P} u \left(\frac{\partial \psi}{\partial P}\right)_{T} \neq \left(\frac{\partial \psi_{2}}{\partial P}\right)_{T}$$

I ow roya (nonoujenne non buseneme remore hom us oujurers (nemen).

2. Сем при сразовом превращений меньме произо упил очинань вы и ворые произобумы размитить, по такие превышений поз. уразовит перекорати в оргого роза (темота не впримент и и темотокой произобущей произобурных позудением и метомость, произобурных позудением и министока и министока изменение образования приненения от выправурных позудением и министока и министока в в вы

Menus na reasure partera rapa, mutuora, Flepto w raso.

Polepenosa muquera specia apamare rango gropalis, room
uner minumani mpo mis upapa. Iro chazano e lo zant chien ma
nolepenosa muquora mex cui, infentiuras quem mun mioraga most
relepenosas, yanzamma cui nas. minuma nolepenosa yanzamma



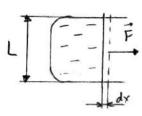
More us rempire ha notopers on numbers (1) tet 67 ves yelpergreement pergue repyro was

Com agreement groppy notopy hord remember, to apagethe cottepunar how must come party hord remembers, to apagethe cottepunar

Mough stown Bornol No

8 A'= 5. ds

ige 5 - notop x no conse nos semene muquoron (4)



numm F

Mueron roman nuema nuemo on vas duyral La harry cognot hoylumon neperiment. Non negremon reperiment heperimen nos per other cum F na bernamy dx, movage notepanom nuema poliumena na lecturing

d Smed = 2L.dx

Toya:

8 A' = Fdx 2 5 d Snot 2 6 2 L dx

Ormyogn.

(1111111)

F 2 2 6 L

B hyrar, north under own neuma mugnora and notopenous nos

Kanue skuynorm na hobepxnown rbepyozo rua.

Tru spanning parfera mening grapamin: ras-muguero, magnos - rlippe 1200,

raz - Phippoe revo.

holigemie namen muguer orgeneral marenne My nobipxnownors navamenue na ynazamos parentes parena.

Gen una hol. nationnemed ha spanning paggina mugnocing a ropa super or permission same apparent proportion of notification of the poor rua source holepanour nors nationemen na spanning pagging rate a stepport run. (hermondame holepanour stepport run a mugnocios). Popula handa super propertura polar qui comprer una holepanourors accommens a una same. Cun nama source, our parounaem

horament i wan ramen. Cun want 50 down, our parencent no ne lepanin, eun manenne - creminal h cuapoopagnens gropus. Eun holepano mas anieme na rpaning passera muspraia l'estepano ma menue no bepara como trasament na manore vassera use a respons rua, ro banda nemoderover rampo gropus, arodh huemunto mourup nobeanon panin passera aus-repare rue, ro eco Moser procura passera (manual muspers aus-repare rue, ro eco Moser procura (manual muspers aus-repare rue, ro eco Moser procura (manual muspers aus-repare rue, ro reca)

 \widetilde{F}_{12} \widetilde{F}_{13} \widetilde{F}_{13}

dt - Interior nousypa, objecto lamoro hererennem 3x roumy pasque quis raga 1, magnorar 2, 16 pporo resa 3.

Your palvolene byon representations to be property

Ormsyn $\cos \theta = \frac{\sigma_{13} - \sigma_{23}}{\sigma_{12}}$

Palmolerum nummoran na notepouran rtepporo reun coorbes cotoger brome ompete remmi que P, no ropont was, upaelour quion ($Q \in LO, II$)

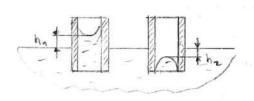
Nome & = 0 - gleene no moro cuardana.

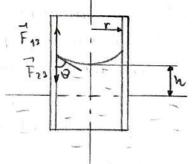
Nome & = 0 - gleene no moro cuardana.

Npm OCO < 1/2 - ranswynoe whomband

Pm 2 60 CT - rawrence necuardant

Il serve cuantomer (mm ne avantomer) reppero rene numbero o appenon





Komurapam my romas prysus, terabrema lucing i muque op mo.

Komurapam soppens bayon i rem, no le zalumno en or rozo,

wangulaes muqueon exemen nomenega una ser, lusque morninapa

holipxuson sprugnora nymodperver coorbera benno bornyryo un

lornymyo epopeus (venum). B hepbora anyma yal rem lappa

muque y yrem anere no epoluemus c breman, a one

nopumaere lasopa namurapa. A boloppen - no presente boznavar

too upulo que a ongrammo ypolae muyean la namurape no omomento h

ourposeum Bonner N3

Ynobre palnoterus muyuan trammurape

F13 - F23 2 mg

F 13 20 13 L, F 23 2 O 23 L, uge L - franco represent sparrien

Due your hours community purpose vi L220 t.

(013-623)2 Arz joor hy

No 013-0232012 voi Q, re \$ 512- hol, not amene na yauru progress ruge u numproins.

Porpu bucora noyrung muynorm & namunlepe.

h 2 2 0 12 WW 8

Va ynolne notepxuero sonotnon- nonymoro pozpitogh, rec Pi - galrenne noy memmon.

Donosmismunos galuems, cozgodulmes umpulsemen nolepranciososososomes muguelos

Po-P12 pgh2pg 2010 2 25n card

Paguer herman R Trop , 10

 $\Delta p = \frac{20n}{R}$

gropinge daniaca

Buyon en nolepuon muet monglemmo gropmy u xap-ci 2-m y ridman postagram R, u R, or no myraen 0008 mone gropmyng daming

DP= 5 (1/ + 1/ R2)

Pasobne herexogn replow poru

Due omnamme paro sono repersora 2 -020 mya mesó o tumas omperiumo pa p (T), to est gropmis hymbor pulmo becur 2 pos

Myero me poytoge a ognor uz 2 paz 2 paznor chem neusrenoso hos-ba remiora Q1, mouro ogne neneroy cam 1-ba, moment M, uz ueptor sparta lo bropgo. I a racumantellucium expersoy crumen delaza palabectura, to pokrateta p2 worst a T2 const. Yopusmul obser, oupequelement nau omomene odrene goza a ei nouse pre heptor paza poem V1, a pre moner V2. Mon-bo l-la nauor M zamunaer l 1-or quere obren V12 V4 M2, 9 60 2-ori - 00 rem V2 V2 M

Parolar heresoyn reploso nogs nouncerterms rapantenzymon benumas.

The repossible from Assertion prepulsymanimecross novement que observe you I some cupia organismobile, o upu uzuenem ropanime na manne hemerum. de u d l

d 41(P,T)=d42(P,T) um - 51 dT + 1/dP=-52dT + 1/2 dP.

he squis - yourme mononim. Oranja

$$\frac{dP}{dT} = \frac{S_2 - S_1}{V_2 - V_1}$$

$$\frac{dP}{dT} = \frac{g_{12}}{T(V_2 - V_1)}$$

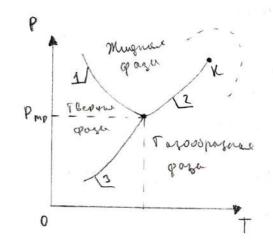
9p-e Knower pong-Knowsayer.

One hostower enjerine apartogny to remember of rungarypa hou polar became apartolou heperote heptoro por le zaluminos or you ment servor neperoya, la remepanypa a your ans observed arrandous a nonemos poz.

Show monground of Johnne of cornomenne yourness observe your Econ may meloge ourners mayour heresour braso propries coessens, in compositionspacers yourness observe to V2>V4, To $\frac{dP}{dT}>0$. Possery my those represent notwinesse falceness multipulosur a ylenvienness tomorrow Johnnesse your numbers of yellowrences had not upon historium someway of compassing someway.

Nemboreme conalienos lengeros, and noropros accalience composament when we were us yours so some in $V_2 < V_3$ Manquine, boya, horopae hom negezote us sucepsuane consume l'impuel queromes dou yours mont obser ($P_8 > P_A$). Due rames 1-1 vapantepres nominement sumper orygen medienne up not oumenn fobreme.

Duarpannen cocroanne



Duarparene, normanna l'esperiement p, T,

Poursenum carosant (pagy open pagn ognopognomo ho grupuno - summunum chois co Can l. tr.

Youlnes wahrs beruse:

41(P,T) = 42(P,T) = 43(P,T)

No upresen money i's regolarums yp-is!

41(P,T) = 42(P,T), 42(P,T) = 43(P,T)

Penerus grow another poer orphysicum znaremus Pmp u Terinepartou Tmp, npm noropus pu gayn norro ymerobas oyno-Brenamo.

Porme in guaranne consume l'experient p a T, courtes abpoirais quoqueram guaranne p a T, aux marchon 10 mois.

Byros rowe hoperanon undas madreum 1, pagentinistas
They you a magnino paga, upulas corragemen 3, pagentinousas
mugnoros a esposhagupo paga, a madas bogramus, pagentinarus
They typo a rayoos paguyos apaga.

Ball acresoner ormen muguent a espospaznens apar. Em parolini mperog ougurant were lostory upurmement romen

no hepecereum c noutous urnament he monroques a pozoloe melhansome moxogus nyren venpepibhono uzuenemuni ser odpazo-

Du ognopognon benjarta (palnoleum ognetpenemo morge narogenes a soule 3x quy. 200 ognaraes, 200 que palnoleumes anorum monge appendolan puno poma (noropas escepere Tpu paga 6-61. Porme, l'noropas anorma sa escele 3x que, he peautyeum

B-60 6 3× passurum aperat um cocoamas moncer naturoparce a upu zuaremen p at ne worler of yourna prostrato Drue. No prosonna co pomme he abl. palnoleuma, a su hux caparcipen novo amount nepesor 1-1 a us 1-05 y april & gruppo.

Bu obeyon le la uneur neurour proposo cono anni, ospipalament, passurumun apuraturudunum no quepunantan, aspipalament or una apunum nempy coloi. Uperalyset mourant porme, l'horopar nort ognobenemo narropare l'halmaniament mu papa, 2 uz no ropar - obesper rano, a agra meso muqua, uneo roposo y uneo roposo le professione roma nas uno proposo le professione roma nas uno proposo le professione roma nas uno professione representante apuratura professione se programante.

Co-lo b-ta unes remoners repuralmentes no propresentations

Pasoloni repesos us ognar muntamure enos monopunaram.

Meravasume woronime - woronime, up a noronne opra upaga appearant os varon Tennepargo a gallement format pours.

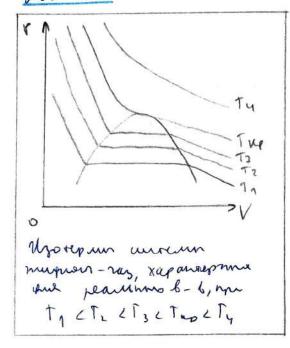
Meravalument cocroams unscho muguers -ray was noquere boona cras rapanegol, Sungung a Repuber menapenne. I noturne muem sem-po moment notorigumoro napa P a nom neno ropost sem-pe momento nopa coanoline pubnari huo mesar muqueen. Pun poconpremum trest sem-pa notepens o noe vas amente o spanyaerre 1 nomo.

Temperogra, non normor tro pouchogus, may sell-port as conomoro umerous. In soon uneques pasicioned menos maynor a rozoo o prosmor apopularin, a noutre management

Jananutuen mpronemor pomert.

Coronau, no repor x ap - Cd omercuensom vas show

gnovement Tkp, Pkp u Vup, vas kommenum winoomen.



Coorber colynouri opuolnement y apoole ague.

upuper lo lameno musement a rapoole ague.

pas, c poron rumepas yo guenomane.

Forma, use suma ropusous amos yourne ospannera lugue a err muriremen romall, a coorder cryossas en thereparason - yourne and ourseparason The

Money the form tham a number aller approved to the popular per stragment propagorement.

brusoponnet topyngenet. Brlippen aperamon coensemm, beginnen ipapola repensyon, obymoliemmi eginemenen apuranunrement tenerum =) he montet upaportolan despepaliono veresuas les magnetia de l'obeppen conserve, a spirit memor so sun ful spubert medienne ne approblem.

Men regeroge mugnor l'répphol conserve mones Latinoposes mes mugno us.

Mondon bogramma coperance a rome competante grandem grandem grandem grandem grander, so b-14 orthogrander appre my coperance a commence of the coperance of the

Parolne resexom 600 nors mora

Drumenon spagoloro reperson broporo por alle relpantame municos Ne I в muguin HeII при осимераную 2,2 К и мине . С том урировам переходом свозимо мамлевое облине сверх эстрести, возимання в не II. Отупстие в ограно house уго и гому, по не I мотем прошилать увие герез осем уриги намимери.

Ppr parolon repersure 6 ronara para le coscoror l-64 norrous urmenaros ce remperatura odparan la transcribe el-6a. Norrous pour paroportus repersoras to - oro porta reborno mos convertos lame retrosorbantemos convermo, o apara ep mono en que do repersora el persoras espersoras la heposo o oque.

Upur me abreme 6 paroloss represoras.

Pour spendamenta a kpus wellow some hym paroloss.

Herexoxe muspour ras, asomoralment perpoi borranare

Grynogam, roo spendoura a reorganium moung ylenurenus b ropms,

mours of man ylensuoro repuropuraturemoro as revisiona.

Ynazomini aurovanno sonomiu prigur your pearco lo hadro.

Harori la parore prigue uniegolomia clira pero s, vois aspersas

bapurore anon conomium, tuniorume coperneus la semenencia

I cas apourlosmos gapelinoro repuropura miremoro noren

yuara tapani epino a pue repesonos bropos pora.

Prouso ogenpee pou ruma alemar. Buana poupura monero

upuraremor poran rolegome rapanenos, « apani pregnovame

repur puraremor roma rolegome rapanenos, « apani pregnovame

 $f(x) \sim |x|^{\lambda}$

Lyl mariae lemmine & omminer Surgan immeparape

 $X = \frac{T - T_{up}}{T_{up}}$

a nonagoteur venem de mas upur remen impenson.

Turnep mundanono orpeque mon fravenus apurmenus
unquindo pue papurmos beujero susum mempy codort.

Money roman unquecam pue pasmirmos repus timami.

remus bumum, omi arbanismo apety, groundrem coomomenus,
mosto am upe orpequer unquina opmis beminn repes
unquem poques

Houspousine bornour

1 Popuna lemapra-Dinoma

 $U(r) = \frac{a}{r^2} - \frac{b}{r^6},$

Ege a, B - no coosmine

V - paros anne memory marengraun

U(r) - norempiamere rueprice l'your percolon memory un renjeaux.

Inepuno memmo nenyrepnoso brammotericome mommo parmorpular.

Mark aquing glyx cocrabilesourus - mepuna reminamenta a mepuna
or ramularing laiso my mepuno hondumento o muchasor apopuly2015 Jennapar - Dmorra (+ un nominene menum)

2. Manpochonumechae rain yen (b-ba), mierowal ognopommit quem -xumreami word, haz gazou

yp-e, bryamans uper zahumun muna venemen chodogo or runa mourohensob u runa apaz, massigamusa brahalemu, moz. npabunou apaz Jusoca.

There is every closofn poliobernois TC (1), ha noropyis uz luminos opunopol brusios rouses reunipargen a valuence, polio rury negaluminos nounovendo unreun (11) mungo rumo con como con (4) mungo rumo con como con (4) punoc que:

C= K- 9+2.

Probus que monogotaer, so mus crement closofor bosponere e ybennemen runa norma mende a ymensmaen c ylenvennem runa que curenn Dborbaa le geophyne noduran l'unequate apartere ponymente o rou, so us hemmes quatopol rottus que monos lement na cocroamme patrobeme e curene Bobapen curene.

C=K-9+n,

We n - runs gangord, onjequens your consonne.

(+ au nommers veryous)

3. Populje daniaca

 $P_1 - P_1 = \sigma \left(\frac{1}{R_1} + \frac{1}{R_1} \right)$

Dono muramore palienne sp noy uzonymor nolepruois so muchom buegistic get in un holipruois non nas umenou Montposione burpour.

1. Popuyia denapra-Dmonia.

$$U(r) = \frac{a}{r^n} +$$

Pipa

npalm monopymonamono nos oppumenty noblexus unos varament 6, objection aponopymonamono parayuna apularum anostar plaso bornemos heprendurante ceremina byannos norme nobleptuora a nampal nemo l'exprony bornemon (a guirpy apularom).

4. Therexog b. be us bymor chase 6 ypyrups was pasolow repexoyour (+ Cut. Womener rempur)

Therewore toursermas conneparyon, boune norgher anson manus unit unit marginar replet don marmitime cb-ba a cranobaria trapamane-

Ip-e Kuaners para - Kuayzuyra

$$\frac{dP}{dT} = \frac{812}{T(V_1 - V_1)}$$

5. Temperage, no norman ospasolame unpa narmali housesquis ne rouse co chodopari nobepension magnoia, no a uzuri pia museum, has Temperagneri hunemus.

Torna pour - Tumpanger, to norman poincer oblaquere lostyr cross nacotornal raingement havoyament construct raingement lupu parmer lummour lostyran y henzuemon palmenan).

Venore rapospaço anus - or queme rozan hobertanom narola, l'noropas raponiquere napola ryporpa.

Venore apuroanazame - sapotomu obertano paga l' painiale, us no-

yours nongenium - odurno unumun 6 boyyere, rainun aspozaren le worm.