11 Lucambias a menorine ascoramentos def Hera VII V' ca municipile mocamination to that current of the y e Hom (UV) is  $A \in F$ . The come that mentione is considered the mentione is considered in the current that the mentione is considered in the current that the current is and a e V, and (4+4)(a) = 4(a) + 4(a) + 4(a) = 10 and the current is the current current in the mention of the current current in the current current in the current current in the current in the current current in the current in th 4+4: { U > U' (4+4)(a) = 4(a) + 4(a) ma Hre 24: { U > U' a > (24)(a) = 24(a) 34130 de flera ve retterino procominanombo nas cuento more F 4 € flombo y € flomb de AE F. Tras cruca na retterine one como per quy Hacuti: and a  $\in U$ , and  $(4+4)(a) = 4(a) + 4(a) \in W$  The more regiment that in the contraction of the cont 24: 170, selection no cuesticus tracient aco act, mo (24)(a) = 24(a) 4+ + = 1 U > U a > (4+4)(a) = 4(a) + 4(a) 24 = 20 > 0 (24)(a) = 24(a) Aco 4,46 Hom (U,U), morato: a) 4+4 ( Hom (U,U) 8) 14 & Hom (4,4) (6) Hom (U,U) e nue recutto mocommationto tras cuencto mone F omteceno onerayume 4+4 4 14 Lora sumauconto: a) 3a + a, to ∈ V (c + x, p ∈ F (c)) = (x) + p(a) + p(a) (4+4) (da + Bte) = 24(a) + B4(a) (4+4) (da + Bte) = (no out) 4(da + Bte) + 4 (da + Bte) = = & (4(a) + 4(a)) + B (4(t) + 4(t)) = = & (4+4)(a) + B (4+4)(b) = 4+4 E Hom (V,V) 8) Bu tarter Un taper a refrance.  $\varphi: \varphi(\alpha a + \beta b) = \alpha \varphi(\alpha) + \beta (\varphi(b))$   $(\lambda \varphi)(\alpha a + \beta b) = \alpha \varphi(\alpha) + \beta \varphi(\alpha)$   $(\lambda \varphi)(\alpha a + \beta b) = \lambda \varphi(\alpha a + \beta b) = \lambda (\alpha \varphi(\alpha) + \beta \varphi(\alpha)) = \alpha (\alpha \varphi(\alpha) + \beta \varphi(\alpha)) + \beta (\alpha \varphi(\alpha)) +$ Fleed VILV CO MUHERITUR MACCOMPANIONED HOS TUCIOTO MORE F ce dimit = m, dimit = m diceata nutrecittueme procompanionta Нат (0,00) и Етки са изоноворни В састност, изоноворни oa le municipaleme mocompanienta Homb le con (F). 20eazamenomico: Hera tocomorume e, ... en le firmitarca casecu combiemento na viev! Hera o Hom (U,U) > Fman e изобраниение, всето стостова на важе пинине изселениение 4 E Hom(O,U) reampreyerma my A E Frant & more carrecus.

1-тим столо, стедеть иснией за глениссии, се о е инсеция, столе Тh Э! пинанно изгологиения у е Нет (UV), ссето се sagata cres macromama Упочава не матимурита на пинейнота изобраничние у выв de croparina assecre, omercemo constrates co ustoca, ce de croparina → te cuarrina co de consegues de consegues → te cuarrina co de consegues de consegues → te cuarrina de consegues de c De Flom (Hom(UU), Finkin) Jucata do tape Fu t 4,4 & Hom(UU) \$ (du + B4) = do (4) + BO(4) > DE MEHOLICHO WECKOHILEHULE anne Flom (U,O) = Fraxa is to casanticcom Flom (U,O) selemntaile c 4, mie (44)(a) = 4 (4(a)). (4.4)=(4.4)(a) = 4.(4(a)) Упроизведението на пинсионие изобраниения е пинешно изобранение mie yer Hom (U,U) Locasamenanto: 3a tartel u tape F muche  $(\psi,\psi)(d\alpha+\beta l_0) = \psi(\psi(d\alpha+\beta l_0)) = \psi(d\psi(\alpha)+\beta\psi(l_0)) = d\psi(\psi(\alpha)) + \beta\psi(\psi(l_0)) = d(\psi,\psi)(\alpha)+\beta(\psi,\psi)(l_0) \Rightarrow \psi_0 \psi \in \mathcal{H}om(\psi,\psi')$ Увеа и п'и п' са вериноперние минения постранства нас econoto more + u tocemoreme tem, en ; firm for ce him he ca consecu combomulo 40 0,000 01. Hera 40 Hom (0,0) to 40 Hom (0',00) Licenta aco 4 > Mey & Fanxn, 4 > Ben & Fexm, mo 44 > Con & Fexn Locascime combo Heea A = (ay)man u B = (toy)exm Unaux : 4 (e) = auf + ... + ami fin + (to) = Guha + ... + toeshe 4 (42) = a12fet ... + amo fm 4 (f2) = tophat ... + top he y (en) = Cunfit ... + amn for 4 (fm) = termby to + termbe (44)(e) = 4(4(e)) + 4(aufi+...+ (mitm) = = 0414 (fi) + ... + april 4 (fin) = = ay ( Courty + ... + toeshe) + ... + ami ( County + ... + Counte) - (Course + ... + termami) h, + ... + (toeran + toeran + ... + toeran) he Butterente te receptessistemen mas his 1-4,8 e mouro i muchon per Ha compressiona to such chief one martine coment the compressional Chejobamentia, mapleiram emeno na compregama na 44 actoriça c manded comento ta mamplegama Cest

и сестеры на пинанно 1030000 HICHERE Hera Vie V' ca obtecurante mensitue mocamonationta tras codof agro na musicinomo wormhence y ettern (v.v.) maparance The as Reny = y by moone mosala, ecomo y e une egue, once Socasamenento: > 4(a) + 4(b) marcol, te 10 +0, and 4 (10) =0 10 4(0) =0', to mota e normal coecia moto, co y e weerque > w= 6 > Repy= 104 сото на испесиното изобланиения у с нот суст) написание whothermome ostacetic c Imy = & 4 (w) +we U3 = 34EV | JuEV:4(w)-w Imy e nomocommencinto Ha 0" Lopasamenemto: But dise F a tricle Imy, maruto, to of tecemon a ev, sa eximo 4(a) = c u of tecemon to e v, sa eximo 4(te) = d sa sa case Imu c v , mo maesta de + pd & Imu. Mocata unace: dc+pd=dy(a)+py(b)=(y-101)=y(da+pb), mie faa+pb = U, maeda, co y(da+pb)=dc+pd=dc+pd=Imy, omegemo contiece sa caentocici, ce Tmy c'! def Nos muse ma nuscentromo usacranemen y rese moscumance endrome (4) = dim Imy. The secret Ha refer was constituted rege maderages rescamo de de Repy. din Apo Use U' ca praideoiseptile rietepietile macomprationa teas recento meno F ce A e compregame tra y to par sa ca sta caseca countermed to Use U, mo no no no (A) Doeasamercanta: Hera tecomopieme li, ..., in il fina, for ca cossecre combomito to vievi e A e compregama tea 4 6 mose Eastern Paristern the A & palacti the partie the cumercama on resultante tamenos emenocose, no emendotorne na A ca acomotochia om econsistiamisme tia 4(e). 4(en) (6 casuga time, fm) Castotamento, r(t) = r (4(e), ..., 4(en)) = dime (4(e), ..., 4(en)) Om sorea compatia, traccie tecemor om le que cutta concretacione na em en morata blacemor on time e actività concrettare Hay (€), , 4(en) = Imy = e (4 (€), , 4(€n), Jucata r(4) = dim Imy = dime (4 (e), ..., 4 (en)), exerctamente r(A) = r(4)

Местема за ранка и рефести Alea dimb= m < 00 le 40 Hom (U,U), and r(4) + d(4) = m Fleed d(4) - d u locemopume en la ca visue na Reny Lonorbaire mesu nutremere resoldienne lecement se cusue en la l'use scentien ce lecement me edu vir en as aduc to Imy, omeage no use casta te rice - in d > 1(4)+d(4)-in
1(a) Hec Imy = 504, m.e 4=0, mc Reay = U is share of (4)-n
2(1) Acc Reay = 409, m.e d=0, mc Imy = U = m=n+0, dimU=r(4)+d(4) our ocalen Hera vel, ue Tomy, magato to u-you, flera v-ner mara 1 u = 4(u) = to tant of - + An (On) Sugar toccase tecemor on Times HERO LEAN FRANCE TO THE CONTROL FRANCE CONTROL FRANCE OF THE TOTAL OF THE CONTROL acceptate to tocampione e, inta . Hera plantan + ... + finên = finên + fiald m, e Juciata louceur person en ca palone na louceur panonem panonem pen ca paloneu na lo se loucemonume y (du) , y (en) co 1713 is cagotamentes comstam caster tia Imy Baceletica: climU=n< 0 , 4 = Hom (U,U) = red=m (drn Tm4+dimkeryn

13. Ображивия пичествие операторы Нега ис капенсистью пинистно посстранотью ная сислева more Fie dim V= n 400. losta y e Hom U, maetale, to 441 = 414 = E. Juorata conacataree остативи прежен операторя оченивний в энасия изсперияти 4- commune assessed oneramon & 4: a > 4(a) - 6 4 y 1(6) - a 3000 Hera y e documen moner mor locale V. ARO to gasen cases Lucite 44 = 414 = 6 A = Cuestomento A e companio Ha Cuento A companio A compa communica compressor in A-1 = A Hera 4 & Homb. Judiaka confineme sondous ca extensionemente 1) Le commen mettecte oncommon 2) Repy = 903 (me d = d(4) = 0)

3) Imy = 903 (me n = n(4) - n)

4) y mecchasyta rai car casuc +a U to casuc +a U

5) rampuyama # +10 4 lotele laceu casuc +a Ue communa Lorazamencimiteo; 1) > 2) Hera 4 e commune muner mor u ve cory Judiales 9(v)=0 ⇒ contantanten cac 4-1 manuatance 4-1(4(v))=4-10 ⇒ (4-14)(v)=E(v)=v > w=0 ⇒ Ropy=104, a=0(4)=0 ⇒ 4 e uneques 2) => 3) Hera 1004 = 904, mie d=d(4)=0.0m Th3a partia is secteema r(4) + O(4) = in cresta, ce r(4) = n, me Imy = U-> 4 e CHOPERGEES 3) = 4) Hera Imy= U is tocemopieme le, en la ca ocisiec no U Tionata revalue Tmy = U= H(E), Hen) -> locemopieme 4(ei), ..., 4(en) ca mitteritte tresalvicaria, me me ca casied the U, state whale 4: casie the U? carec the U 4) -> 5) Hera e,..., en e moustopiere casuc na U le A e maneure ma tea 4 to most dasuc. Beemopieme 4 (e), ..., 4(en) es Easier tra 0 = me ca nuteriteo tresatarecurer r(A) e ration Ha partia tea deamendama om recitereme tocemor imarécles ecremo ca ecopsieramieme na 4(e), ..., 4(en) le casuca Ener, en Juana r(H) = dime (4(e) sero, 4(en)) = diml-n => det ##0, omegremo ougeta te 40 communa namoura 5) = 1) Hera es, ... In exprediction to the tray compound to compicio A 6 mosi casico. He commicio campicio we det A +0? Hera more sagagetime passec to wampugama A commicemento userceti onepamop 41. Juciata ta onepamopumo 441 16 414 combementam campagame AAT-Cu ATA-C Chejobamenteo 441 = 414 = E, mie 48 acamille richerte onexmop.

Excercion: Aco dim U+00, mo tenecre em mosic extentemente construeram ta () cura (om 2) caremo re om 3) tel cresta Here  $\varphi$ ,  $\tau$  & Hemi is  $\tau$  examine number one como in  $\tau$  ( $\varphi$ ) = r ( $\varphi$ ) is  $\tau$  examine a name of  $\varphi$  ( $\varphi$ ) =  $\varphi$  ( $\varphi$ ) =

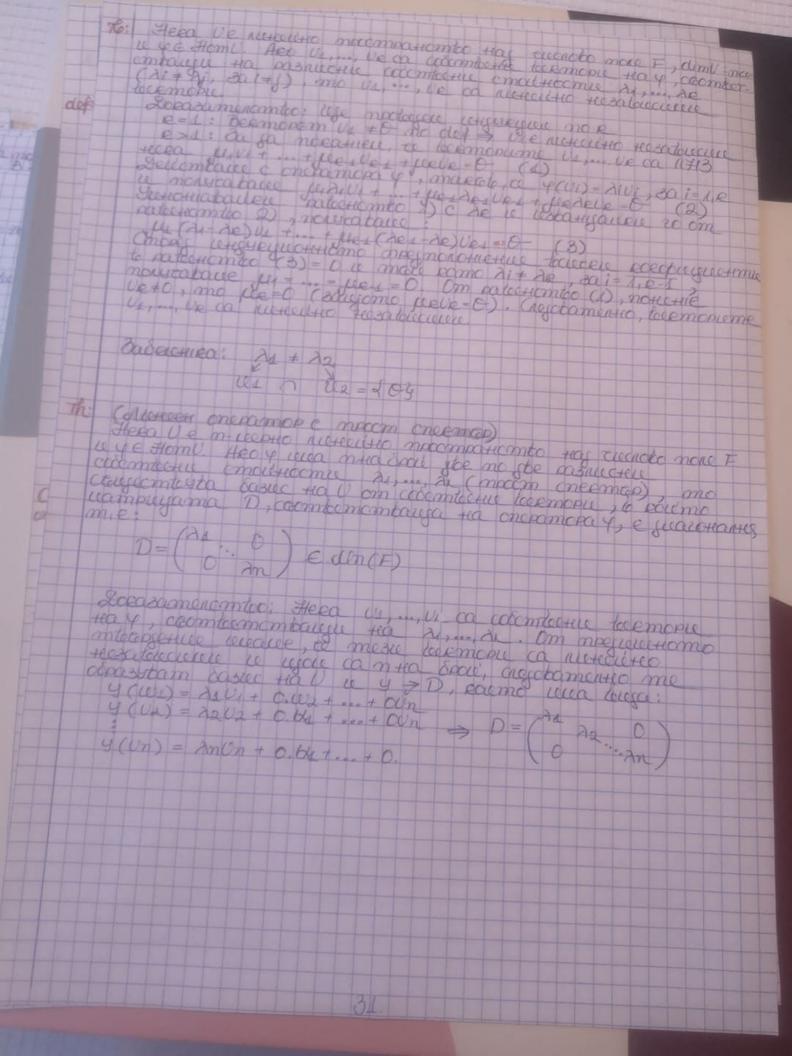
14. Culour 40 Rusieca Hera de exciéticulatio mutilità moccominationne tias electros more F le tiera es ... En le firm fin ca da castica tia l'Excel to castica de la l'Excellation de la castica de la casti the themorume on marking, mie fi = Cyei + Taila + ... + Trien fr = Trace + Taxes + to + Trace (D) Te Homb, Te of of Telent In + Unde + Tanez + ... + Timen dep Mampuyama T = (Tij)mxn +tapucaut wampuya +ta REPE Tu La ... Cin moexoga am sadies (4) leave disco (2), mie om est. Ins ... Tomlown Trump; well, we = 5 xili, we = T(w) = Text. wo Compressione to reampressiona T ca comatatue on ecopuerameme Ha tecementeme on temered acuse enpered maplered - comencotecime to Too accrecited recontraction = r(T)=n Сперователно, Те отпатила матрица. Отпатно, него T= (Ty)mxn e acamiena reampiera re es, en ca basic na l Люгава всема соготина сватрина Те сватрина на mperga om mocestoren dasue na v, eau gour lasue, onregenen om saloencemtama a). Hero y & Hom V ie Hay coom toom comba wampieya A = Cayman le caseca fi, en (4 & A & den (F)) re ceample you B = (lou) nxn Socaramenomico: Heeta TE Hom V 10-10100 recimpienca TE casuca en (t = Teden(F)). Jugie camo Be igampiaga na 46 ociouca fina, In (47 Bé (In(F)), mo 4(fi) = lait + in + lonifa; i=1n Theresource one more T = (I=1(fi) = ei) le monercataire l'ille toutent de l'enternance de l'en Om muse aconière sa sacricolière et ongramoram tigt i recea wampuiga B to casieca es, ... en CTYT- & BE Con(F) on source company one companie que t iccom companye componente All The caseca len en morata meramora Try telegr wampunga TIAT & Easura Commen (TINT & TIAT) > B-TIAT

Hera A Bedinit Castave, et reampliquime A le Boa morconile ace Faramicia namenza I, macata re B = I AI. B moone chirare un numere H. B. ellamougume the B, combamontarya ta resective oneramen 4 E Home to resultice existence es, en u firm, in ma l, ca ingocher, mie ATB. Релации та на в прации на севивалентнист Lorda menomico: 1) HERO HA MOCHO morato, ecomo A-E-AE-CAE 2) Hero A-B, morato FT, det T+O marata, re B+T-AT AMB e peragues na extentacemento (облатно на сперствисть) Hera H, В с Mn(F) и H В. Листава marenta, ce mamenyume tra y le messe sta casuca tra la montenco Decar menember, Usen Horb, morata FT-commence wampiega, marata, ec B=T+AT is nece to, en e nocestracti casuc da V. Heea TE Home U T & TEMM(F), a GE Home 16 4 > HE CEN(F). One na moram T & conamicus, morechie натрината те статина и знаси всеторите =Olm A= T(E), ..., fn= T(En) couse consistan asuc na V. June moles u-Te uampunama na marga om naplace cau tomopice casico (e>f). (resotamento, om the muche, ce nampuyama tea one samora 4 to casuca from for to U, e mooreo B = om To diagnostiume damniegue recom (HOB): a) tratoriu semicoucharimus -> giet # = det B 5) sectorice "particoles > n(A) = n(B) Docasamenomico: Flera H.B. morata FT-ocamuna: B = FIAI a) det B = det (T+4 AT), om Th on suchemence no semencialismus
mousiataire, ce det B = det (T-4 AT) = det T-4 (det A) (det T) = = (det T-1. det T). det A = (Steriotherice fra det) det(T-2T). det A = det E. det A = 1. det A = det A > det B = det A b) n(B) = n(T-1AT) = n(AT) = r(A)

в ланетеристисся толиной и катертеристичний корени на квасратна истрица Hera A = (ay)men & Men (F) La assurgace mampingama (au-x an ... an A-xE = (ai ase-x ... an Детрийнантата на таки источна е: an x a12 ... am = (1)nxn+(-1)n-1 (au+022+...+am)xn-1 det (A-XE) -+ -- + detA an am ... amx continue to most monteste to sentence continue to sentence continue to most monteste to sentence continue to sentence to sentence continue to sentence continue to sentence de This (Kausamon - Paine) Bacca HELln(F) e ecret to fall) a: He wampiegama HE Wn(F) & more contentia ( encuertame me nos на истрината А са слементиеть, станции по мажения suarottan tea A, mie fa(x) = Can-x a22-x \* = (au-x)(ass-x) ... (am-x) 10 consequence (a 24=au, 22=ass... 2n=am Topoteceme compresse A-B weam exist is cary xaraemericani-COH monution mie fack) = fock) masata a B= T-AT om malauromo sa yutictivetus tra semepleit atime moustaballe: fo(x) = det (B + xE) = det (T-4AT - xE) = det (T-4AT - xT-4ET)
= det (T-4(A-xE)T) = det T-4. det (A-xE) det T = = det (A-x€) = {A(x) Hero le richeretto mocompaticato re dimbenco, ye Homb Hera Egres, En re from for ca sta casuca tra U il reampressama Hay to casuca (1, ..., in e A (4 2A), a isampiegama tea 97 occamient fine B (4 2B). Flesa IT = Text is to Florite comment successed one name of morata B = T-AT, omeasure ра говории за какаетеристичест полиной на иснеен опекато Rememberemente monitace to sutteriore common ye from use tradicione xaparmenie muchica nometica facx) to compa warma tea metecutives oneramon 4 to Rais gar asies teal. Porteume to nonieticua mariedane sapaemericomunicitus ROBERTO HOLY U OSHOCARQUEE for(x) + for(x), 4 & A & CONCE)

. Соствение всетори и стольние стоинасти HO MERCEH ONCHONCE Hera de municipal montamonto mas cuanto mone i le qui store дин всетор вот в намистия сантин всетор на в асе. 2) gauge emtoy to tucko AEF, marcho, ce 4(u) = AU Cuchomo a ce manica cocombiena emovincem na y, combiencontains no taxantecture lacemon . Bion 17300 LAN ACF : YCU) - AU 40,000 Badesesura: 400) = 1.0, 400 +ce e colembre lacemor Hera l'e reservetto macomiaticamo mas cucado more F, qe Hombi Coccamication that the first the first the form of the contraction of Heen 10: au-A)di + apode + ... + andn = 0 e xony azidi + (azz-2) az+ ... + aznam = 0 KCNY wiea tectionato percentere (0.000x=0) - didamendo > det (xcas) = 0.

det (A - xE) = fA (A) = 0 => A e xararemenumiente romere to 4 => 1 e cocomiceto conocitico ne commune, and he rangementemiers concre may to not mo for (a) = 0 - det (H- AC) = 0 => KCAY, 30 gataga U una Le= (d1, d2, ..., dn), 0.0.0.d1+0 +0? > recommence omorrencem 9(U) = 2U Hay so cocomicen tecemen U Нева не волиношерно пиненино тостранство ная спасо more F de 40 Home. Morata rapaementementement concrete Hay, more teagretuaique Ha F le caux me, ca tecrereme commitatere 300 CLEHURA: 1) HEO F-C, fig (x) = fa(x) & C [x] > Bourer rangements тистия ворение са оснетивесние сисла (Тома Холанова) и ванови те са соствение станности на у Aco F = R, fig(x) = fu(x) & R[x] = therate concerner teleme conciere ca une Puere no stouce commectio emperational ruga > He laureil rapaempiermiertere RODONIE CA LE COTOMESTELLE CONCRETACIONE, A CALLO R reservences



Hera A e etas comma campiega om mine ras, scomo cuero of the procee passence representative constructive constructive constructive спогава не подожа на пасонанно матенца (н. р.) в о финантира на Си ус Ното. Личава не матенцата 

Methanientimotice mosmocomrasiconta Hera le restate monompaticanto tras ruento more F Разване, се постронното не е менторианитью стнесно у ими у- инванитьно, ако са всеки возато и си имане Забененов: Нео И е 4- интариантно тестосточното на U
то испесь за назгленции устотельно на 4 само всерху и стом пинском оператор в пинсиното тестосточното и me the (10) = 4(10), sa well to y totopy il in constitue o the, Diplencapie: Hera Ve provincione pur presente de person В оторпостранистьста води и са у-инважитии 2) The nace meanic material Time is keep as 4- interpressionic at the Repy + 4(iv) = 6 & Repy + (nodef) Keep e 4- into = U 30 two Imp, File el, marcho co que = w = que) = q(q(u)) 3) Hera he accompanie a maission sea y a) Tignocomposicomo (1 = foe 0/4(0) = 20} e 4-14tapiantes
30 to ell = 4(0) = 20 ell = 0 = 9(0) ell = 1 e 4-14+16. δ) Head  $v \in \mathcal{G}(u)$  Coximtes to the top of the equipment of  $v \in \mathcal{G}(u)$  is  $v \in \mathcal{G}(u)$ . There is  $v \in \mathcal{G}(u)$  if  $v \in \mathcal{G}(u)$  is  $v \in \mathcal{G}(u)$  in  $v \in \mathcal{G}(u)$  in  $v \in \mathcal{G}(u)$  in  $v \in \mathcal{G}(u)$  is  $v \in \mathcal{G}(u)$ . Нео еден пинени оператор у томтенната состинена столинст and mo more rece extensepted reference mornecement mornecement (tacono e u commomo). B commom, tecesie eneromon 6 practionecono tectosación accidente macimicationico tras o una ерисистие инстанционные подпосстванестье отнесть стеминей oneramer. Нека и е рашено пенениево пинене тастранестью trac F = R is 40 Home. Thorata 4 was effectioned will запристно инстаристно постостью постосностью Lora amençanto: Flera tarmopieme la, la, ..., en ca caxec tal Had R is 4 was reampleyed A to mose dister (4 > A & In(R)). 3+idell to uscon the tuck me, concernatación tra tacell tocemos el нарежена т-среа от естринатите сен вове фиксикания cosser, e rescuoppiesare om l'acce Rn. rege noveriere, ce Q= (10,000) 82 = (O, K, , , O) en= (0,0, ..., 4) de mosie reaciste ucon seamo teremoneme es es en co casico ma miche mo marmoren mo en tras e divinta F! Mercery one pamor & marceto, ec 4:500 700 reamplessed A le mosse cases, 40 9(0) = 4(0) 80 to 60 Merata

concret the Lawrence , que cocomberra conclusion acc. Hera a + ip, a per Hera c + 0 is C = in a cocomberra terminary to a, morata c = 4+13 +4,3 = R = a + 16. &a ознасии 9 = 4 (41 - 4n) е R п ст д(с) = Ac = 37 (4+i3) = 4 (4)+i 9 (3) = 4 (4) +i 4 (3) (3) +i (3 sacreme empares ra steeme satocremta, nouscatares: