1. Deskpaiten ereneur 6 pasumperara elornidola palotenta u parmuperioro elorni-dolso upocrparambo.

Hecuona ra Ebruid sa ycnopedroun: theo Mr g ca recurrende um rocka n npaloa, To le paletenteuxo, on pederetta et Taxe - 2=2(M, g) crenzectbyloa morno edtre upaloa noes Moy y conopedea ka g.

Perayuera yempedicin e perayue ta erbubarektricin - unane

1. a na; 2.) ako anbito bna u 3. areo and, buc to cha.

Credolauterto rucoure coboso os upabute (le paleterta, npocripatierbo...) ce passible tea teenpeaucauxu ce kracoloe tea exbularetertions. Baska rpala noncida le tortes Duk krac n'dbe n'pabu nputrachemas tea édure knoc morte morala, koraso ca yonopedeu.

Boeker takob krac tapuzatie Jeskpoulta 100ka, unignoletitha c banka 100ka et 403ce krac.

Chedobouterno balka npalsa e menquidentjea c tocteo edra tesseponitea tocka mille npalm ca menquidentem e edra micanga tesseponitea tocka, tocho toralsa, koronto ca yenopedem.

Bob palerentara:

Vocker teapercare Deskpourteura inpulsar tea palotenteura, Ostarabane c w

Vocaure u npabure le elsemoblava paltures Ez teapuzane apainten.

Mkourecuibono om bewern kpaniku u
Deskpaniku mocku, bancon kpaniku npabu u Deskpanikara npaka teafonzane
pasumpero elokundoka paletuka Ex
Ez = Ez U(w).

Demoretten koopantarn & Ez

Hera le te e doukcupoita adoutita koop Autanto cucrena K=Oerez. Toraba kpour teara tocka Muna boopantearn M(X,Y),

KEDETO X,Y:

OM = XE + YE.

Tezu koopalitaru

наригане несемоченни координати на М

Répositea néaba que omicha edteostar-teo es upostrernesso cu

g, ax+by+c=0, a+b=+0,

Tocka Mo(X0, Y0) Eg<=> a X0+66+c=0

Da npunommum, re bekroper \$\overline{p}(-b,a)
e konnneapen cg, kanto u re ypalokekuejo

(ga) X + (gb) Y + (gc) = 0, 9 +0

course oras ypoloteerne tag.

2000 e, Te teapedeteure Borieu pearny ructa te , con root 30 Da mondadoù i oopdutear na leureu Torru or Ez*. to, teapedereure mondour la bebeder no nod kolten

Herrun ca Doctostocko.

Herra conperso K=Oèiè, M(X,Y) e repairea torra. Toraba benera teapedera mporira pearren rucra (x,y,t), + +0 torruba, te

monerte roopantaten to Manperto K.

Gedobarterro Muna xonorerren koopdutaru u (xx, xy, x) Hx to, x ER.

Como tora muare, te de vocana Mi (201, y1, t1) m M2 (22, y2, t2) colonados mocreo torala, korato vante (24 y2 t2) = 1,

M.e. Loopanteature to M1 m M2 ca nponopymorature c eduk n crouge koedphymeter,

Hera cuperno K kponiticasa upaba ge c ypaloteerne g: a X+ bY+c=0 => p(-b,a)ng u Ug e destrouitasa tocka tra g. Toraba Carra tea pedetra tooka (-xla, xa, 0), x \$0 trapua-me trovika xomorehhu koopahasu tra ug.

Aro enperio k npabara guna xpabrerine g: ax + by + c=0, To barra tapedeta suposika peaseur rucha [pa,pb,pc], 9+0 teapuzarre Tposika somonerku koop-'autourne 40 g.

la Destpaniteara npalsa co upudalare Domoretten koopantearn w:[0,0,0], 0 +0. (Taka w: t=0, w[0,0,1] ... w[0,0,-03]....)

Godinerne: Coperno K=OEE, bEz=Filler

1. Barka Tocka M una xonorekten koopan-taru (20,4)+(0,00) u M(20,24,24,2+), 71+0 1.1. Me kpanika=>t+0 (=> XOHOTEHKUTE KOOPOUKOTU KA MCOM(=,).

1.2. Me beskpouira <=> t=0.

2. Baska npaloa gruna konoretten boop antearn [a,b,c] +[0,0,0], baro upin 2.1 a2+b2+0, g e Epacita npala, a 2.2. a=b=0=>c+0,g=w,Tege Deskpain

Jeur tea pouba le Ez*.

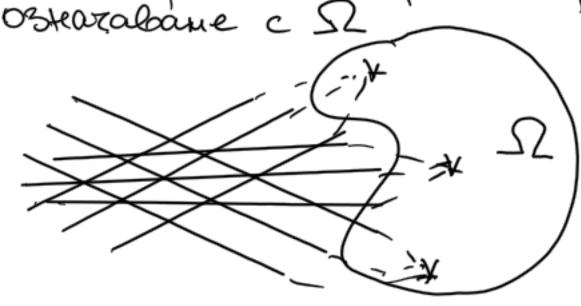
Aro M, (xy, t) + M2(x2, y2, t2), mo

9=M1M2 <=> 9: | x = xx1+mx2 , (x, m) = RxR (90) 2 = x x1+m x2 , (x, m) = RxR (90)

(butte resignate of I-bu sypc ...).

В пространствого. (3-нерного...)

Colorinteocria or bouren Destpourne Tober teapuzane Destpourtoura pablenta -



Совъупностья от венери крайки и безкрайни моски, крайки равники и безкрайки кага равники и безкрайка варитане разширено евкново пространство Ез.

Xonorenseu toopantaru lo Est

Hera K=Deles e adoutte koopduteatea Cucreta le E3 = E3 1 (Sly. Toraba sa Mpoussontea rocka Munane OM=Xe1+Ye2+Ze3 m (XY,Z) teapurate texonometre koopdutearm to M.

Baera teapedetea certoapea (∞, y, z, t), t+0Taraba, $te \times = \frac{\infty}{t}, Y = \frac{1}{t}, Z = \frac{2}{t}$

Haprizarie sconorenen kogodintarin ta

Genzo rata mane

Calonadar (=> vank (2 yr to to) = 1.2 Calonadar (=> vank (2 yr to to) = 1.

Hera corportio k epositiona palousea de e coolingo republique le E3

 $A: AX+BY+CZ+D=0 (A^2+B^2+C^2+0)$ Acro e, re ypableermero (gA)X+(gB)Y+(gC)Z+(gD)=0. Congo orniclos A(g+0).

Baska teapedetea cembopsia peantia cuc-Na [gA,gB,gC,gD] + (QQ,QD], A2+B2+C2+O, B+O ce teapouza seonoretteu koopoliteosia tea kpainteera paloteutea a corportio K. Xonoretteo apaloteetene tia d!

d, Ax+By+Cz+D.t=0,

Ha desepairenta palemena Ω inpubabame apalemene Ω : t=0 in creatertes sonoremen roopdinearin Ω : [0,0,0,0]V 0 ± 0 .

Heka g e npousborta kpaira npaba and the \$ \$ (pr)pr,ps) 119, \$ +0. lea vestpourteura vouka lig tea npaba-ta g npoisaboure ocomonenteu boopdutari ug(p1,p2,p3,0), kauro u (2p1,2p2,2p3,0) ₩X 40. Upru nepro, Jesspanikara TOCKA tea octa Me (0,1,0,0) Hera de kpourea fabrentea c somouthen gzdumglla PhPhps) 19 ea 49, Koopantearn CA,B,C,D] M (le E3) => Beknoper P(P1,P2,P3) Ng komnatabele c d Hap lets coorberates letes desponitara Hocka lig(p1,p2,p3,0) Mane Apr+Bp2+Cp3+D0=0->lugzd.

tro de répaire palemera, to deseponiteure ne voien omnibame a

M: fd: Ax+By+Cz+Dt=0 D: t=0

(npecertuya tea De pablemen).

Kan da e paloteurea B, Bld-6E3 e C ypaloteerene B:(gA)x+(pB)y+(gCz)tHo C 9+0 u D*+ gD (mon p+2)

Heka Milaiyiizinti) * Mz (xziyizeite) => rank (xi yiziti) = 2. Toraba npaka-Ta, onpedereka om Min Mz e c napame-

Houzeen spakteerus

- g= 2M, + MM2. hapanetputten spalstecking