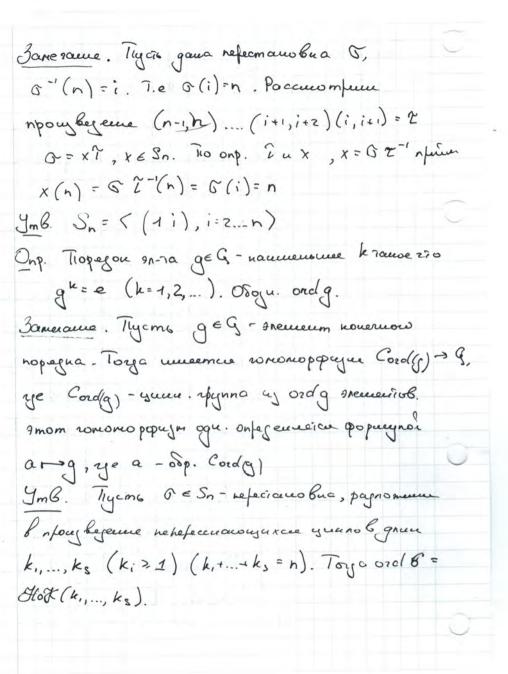
I Mogyno Группа перестановой Sn=96:91,..,ng -91,...,ngg onepassue-wormozuscue. Oδοju. 6 € Sn ~ (6(1) 6(2)... O(n) grucesporusces janues! (6(1)... o(n) Gune nepermanobra que nomopor 7 i,,..., in - nonapus papuerune rescue om 1 jos 7.4. 6(i,)=iz, 6(iz)=i3,-,0(iz-1)=in, 8 (in) = i, G(j)=j Vj # dip...in y Odoju. Tanol yuna odoju (i... in) Imb. yumob gruno k & Sn pobus (k) (k-1)! Опр. ушило дпина 2 нау-се пранспозицией There G= (i, ..., in), On (j, ..., Je) Di, Oz & Sn. Tipegnous muces, 2mo finn, in 4 n fj..., je 4 = 0. Toya 5, 52 = 625,

Manue yours hop-ere nego bucceses ourse. (nemete con away.) Frefermanobuc nomem dome papaomena b npough. nenefeccencionique que guest, nfuréne mance pajuomene equiconheur e romontion go refectaco baco como merteres 1 G € Sn queux n, 70 geno buma, a acues ocm. vejagérembobame, 70 продолжаеми: Tipogonmaeur (i,) G(j,) npoyegy by nous ne exbarum bee site o°(i) = o°(j) ach => i= 6 - a(j) Pajnomenne equicibeuns, 7.4. haura nponegypa kanominecuare Onp. Trycms G-npourb. Ifynna, g, ,, gu - nonapu pajunue 91.70 G. Tozja robopai, 270 G mapo nopomgena g,,.., gu, eau dge g g momei somo ganucan b buge npany begenne zn-iob y nu-ba dg...ga) Предпомение. Группа во поротрена всени унилами. Sn = < (i, i+1) 1, i=1, ..., n-1> I gormamorno nagrumore parceno por beito npour bonouni your l' nfough. spauconopur buga (i, i-1). · Pagnomune np. your Enpoy 6. Tpavenguege. (i... in)= (i, iz) (iz iz).... (in- in) Sn= <(i, i), 1= i < j sn> • Dno gon-ba yib. neosxorumo a goti. npo bepuis, 200 g Vicj spanenojusce (ij) nomei sors njegorobneva B buje spough spancrojungue bya (a, a+1) nanjumep (i,i+2)=(i,i+1)(i+1,i+2)(i,i+1) (i,i+3)=(i,i+2)(i+2,i+3)(i,i+2) To ungymum ganajo base Suy. cuyren 🖾

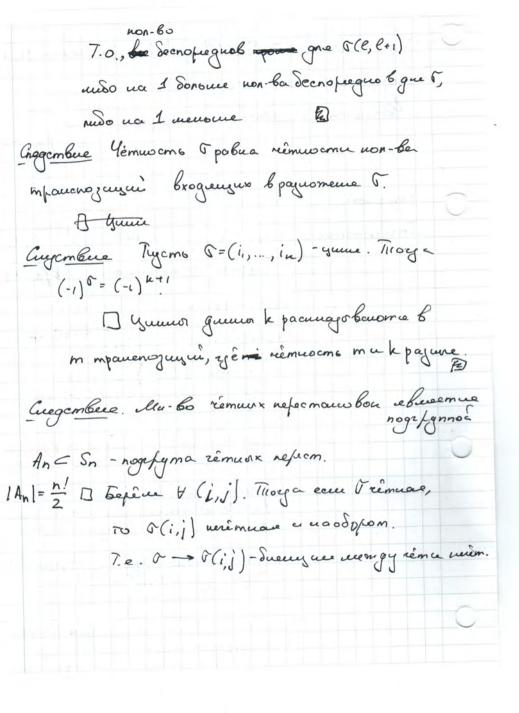
An. 10. 2



Bonpoe Trycmo G-novembre afynna, Hcg-nogefyn Ecmo nu navaverio ches evengy 14/11/51 rebore u npabore curemune unaccon Onp. Nebon cue muoi mace G to not - um- lo Inemenmob buqu gH, re geg. Tipabori chemani unace - mu lo premeriol buga Ha, 96G. Barreroure Mn Sepén bre Anmon us hugomnomasur un cueba unu enpaba на oqui фине. эленей щ 6 Tipunep. H=G u H=e. Tipegnomence Tiyoto 9, gr & G. Torja nuso 9. H= 924 200 9, Hng2 H= 1 Trycho gillngall = o. Thora 3h, wha, 7. n. g. hi= g2 h2 = = 92= 4, hi h2. Tuorga grh= fg, h, hi h, h = Hy= = of a, h, h & Hy Tyems 19: HI - Mu. Bo ememnos muoccob (nebox une mpabox)

Tipegnomeure 191=1411·19:41	
Baneraux la Sueme no aux maccor - pass	suemo
но имассо экв., Т.е. д. ~ 92, есть с	
9~9;9,~92,92~93=>9,~95;9,~	
1 gef, h, h el Torga ghi=ghz=>h.=	h ₂
Thora = 19H1=1Hg1=1H1 Te buam	un pays.
на писасия вив. поп-во эп-гов в жатром не	cac ce
pabuo 141=> 1G1=141.1g:41.	
Teoperua Narpanma	
Tropagou afenno generica na nopagou	nogrymna.
Chegallant ord(g) / 1G1	
Congréber 2: Itp-none ey p mouveurob. (p-	npocmoe)
Toga Va = Fp / 903 a == 1	
Light with the control of the contro	

Onp. Tyens of Sn. Hazolien nafy rucen 15, ejen
Seenofrequoire, ecur o(i) <o(j)< th=""></o(j)<>
Уётиость б-кол-во беспория в. Обози: (-1) °- ∫ 1, б-гет. (-1) °- ∫ 1, б-гет.
1-1, 0 - nerim.
and the second s
Impaucrozuyue verênua.
Tipequomenue. Y o, T & Sn bononneno (-1) 07 = (-1) 0(-1).
□ Tiyomo o-refermacobua, (1/4)-mpauco.
gleyx cocequex on-ob. Docmamorus
mokefums, 2mo (-1) 0 (2, l+1) == (-1) 0
· Tiyoms {l,l+1}-Secnopegou que l; mozga que o (l,l+1) napa fl,l+1} ne secnopægou.
· Tiyomo Il, la 13 ue Secnopagou que G. morga gue G (l, lu) napa Sygem Secn.
fa, by rebuseman un vem Secropiegnon gne ou o(l, l+1) ognobremenn
* paceucompun napa fl, b y, zge b x l+1. Toya (6(2, l+1))(2)=6(l+1) (6(2, l+1))(6)=6(6)
(o(e, e+1))(e+1)=o(e)
Secropaquous que 5 T. vi. T., xoga
dernopequous que 5 T.vi.T., norsa del la Becnopequou que Mb
An 11-1



Cue miere kieaeco
Разбиение на синетипе писосо - оти. экв.
Eun G-adeneba, 70 nebre comune muccos cobs. e spo banen.
Tipunes G=C, H= IK+
XEC, &H= 9xx, xeR,o3
Onp.1 Magnégenna HBG may-cre nopmanouoù, ecun
tg eg gH= Hg, T.e VhEH 3h, EH 7.2gh=h,g
Onp. 2 H-nogrynna BG, eccus tg = G ghg-1=H
Aumenteurep Sn >H= 9 0 € Sn: G(1)= 13. Torga
Hueuopurausua & G. Devem Euneusus
gH = & G = Sn : G(1) = g(1) }
Hg = 8 GeSn: G-1(1)-9-(1) 3
Писреша: Еми Н-поринамональ в С, то на
un-le encement unacco l'unio bleeme enfermepy
hymnor g.H. grH=g.grH
D g∈ G nyemo g=gH ∈ G:H. Populyia
ynnomence g, g2=9,92

Haus uymus npobepums, to thi, hz EH
bonouveres g, hz. gzhz=g,g, genombumeneses,
g, h, · g2hz = g, h, g2hz = g, g2 g2'h, g2hz = g, g2
7. 10. youroneure maccob ne H
zakucum om bodopa npegem. H
karngoro uj kuacust.
· Hauerue ospamuoro +n-ma: (gH) = g (H
· flaurere neimpanonos on ma == H
· Accogname Buscome \(\bar{g}_1 (\bar{g}_2 \bar{g}_3) = (\bar{g}_1 \bar{g}_2) \bar{g}_3 \)
g, (9293) = (9, 92)93 T.K. G- 2/ynna
Osoju. G/H - gaumop rfegnna
James and Ener (G) 70, 70 G/H = 19:41 = 191/14) Tipumer An CSn-nopulations, P.M. Ge An,
Tipumes An C Sn-nopulaciona, P.u. Ge An,
g & Sn, 70 g g g = (-1) g g = (-1) g
leme Tryemo G-npombonouce zpynna ge G.
Paecucompula omoSp. Pg: G-G, Pg(x)=gxg-! Thoye
g-youopgrape

\$ 1 4g(xy) = 4g(x) 4g(4) = > 9x 99" = 9x9"949" 4g(x)= 4g(y) == gxg-1=gyg-1= x=y unser mubuous 9×9-1= 4 ==> x=9-149 = crop 2 reimubusemo Tepucou. 909'- confirmeme 21-mon q gremouma o. gHg-1- confremere sygnes en ou g. Adg: G-G anospamene conferences Flantumep, H-nopmanona => Ada HCH Vg & B Adg - romoropquyu ofynn: Adg (xy) = Adg (x) · Adg(x) Adg (x")= Adg (x)-1 Adg- moreopopeya, 7.4. even gxg-1=9 xg-1=> x=y Adg - Adg == Id Adgigz = Adgi Adgi Adgigz(x)= 9.92 x (g#gz)'-9.92 x gz'g."= = Adg, Adg = (x)



g ker 4 = gx ∈ G, : 4(x) = 4(g) y 7. m 1. ecu x & gher 4, To 4(x)=4(a) 2. eur p(x)=4(q),70 x= qh, h & her q. 7.4. (\(\phi_g)^{-1} \cdot \phi(x) - e \) 4(g"x),7.e. g"x & Ler. Auauorunes her 4 9 = 9 9 6 9 : 4(x)=ce (9) 3 Thanen ospajou esto ropusamuace nogrégima. Tio-granua: gher g'cher 4, r.e. 4(ghg-1)= = 4(g) e4(g") = e Ho Im ne Breega nopulaura: HCG-ne nopul. Toya H-og Imb. Eun Huspmanoua & G, To omosp. G -> G/H, comopos zagaience epopuyui g - à elmeemme rononoppagnon rfgn. Imon romonopopeyer veg-ce no sur un

Choicme	80: egps ker (g = g/H)=H	
	Im (G -> G/4) = 9/4	
Try cm 6 q:	G, -> Gz-romonoppayae efform.	
	G1/kery ~ Imq.	
	· On pegenieune nance omospamens	
	ne za Bucum om bosopa njeg-ue	
	macca cumencoma: 4 (gker 4)=	
	· Προβεμια, 2mo g = 4(g) - 20mour = g, g2 ~ 4(g, g2) = 4(g,) 4(g2)	n.
9,92		
	$A(\bar{q}, \bar{q}_2) = A(\bar{q}, A(\bar{q}_2)$	5
	· Ocmanoco nfobeliemo, zmo A woudp	
	1. A-cuspoeusue, T.u. eun xeImq TO x=9(g) gue venomnquo ge Ag=x.	G
	2. sur Ag=Ah (g, h ∈ G,) το φ(g. τ. ε. gh-1 ∈ her φ, τ. ε. g=h Ε	
	T. e. ghicker 4, 7. e. g=h	
Îycms φ:	G, -> Gz-romomoponyme.	
ker 4 = of	g, eg,: 4(g,)=eg	

Traggyroung, ker q= q (e). Traga gz = Gz, 7.2 4 (92) 78, 7. e gr = Im q. Toya q(gr) consombre naxogumen 6 Sueumubuour coomb. c kery. 1) x ∈ G : 4(x)=92 Torqa 4 (92) = x kery ,7. k. 4 (4) = 4 (x) y = xh, h & her of. Monougrues, 2mo 4 (gz) nougraemae up ker 4 = 4 (e) your menerce na restor us no ospega Come Co. - novemare nogrégiona, mo mo mongrescement beex nposopagob cobnagación. Eun q: G, -Gz-romomoppeyar, la, 100, 100 19, 1 = therept. IIm 41. Tipumeper. · Tycm. An- znanonfernemane stynna Torga 3 nouvouppyur 4: Sn - \$±19 . 9 (0)= (-1) B smon engrae aggra q = An,

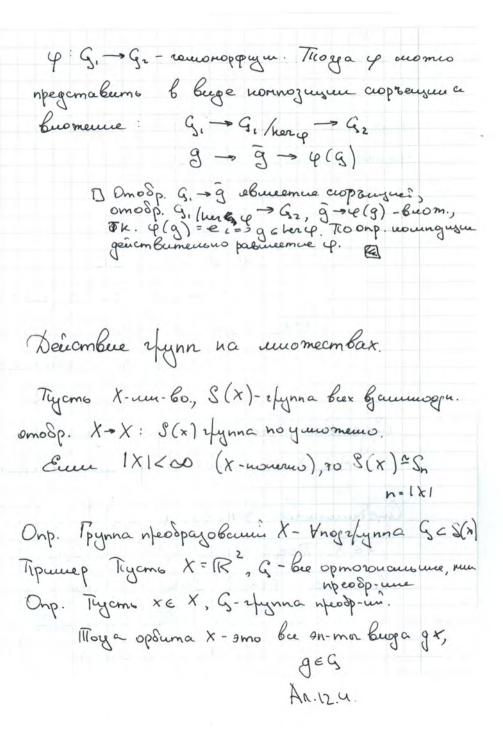
An.12.3.

φ-τοιιστορριμα,
$$Im φ = f \pm 13$$

T.o. $|S_n| = |A_n| \cdot 2$

• $G_1 = C^* = C \setminus fog$
 $G_2 = R^* = R \setminus fog$
 $\varphi(2) = |Z|$

Toga φ -τοποπορφιμα γίμη fog
 fog

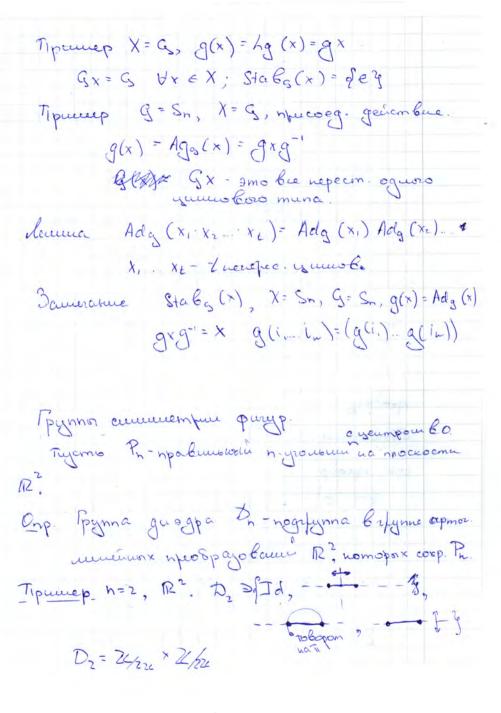


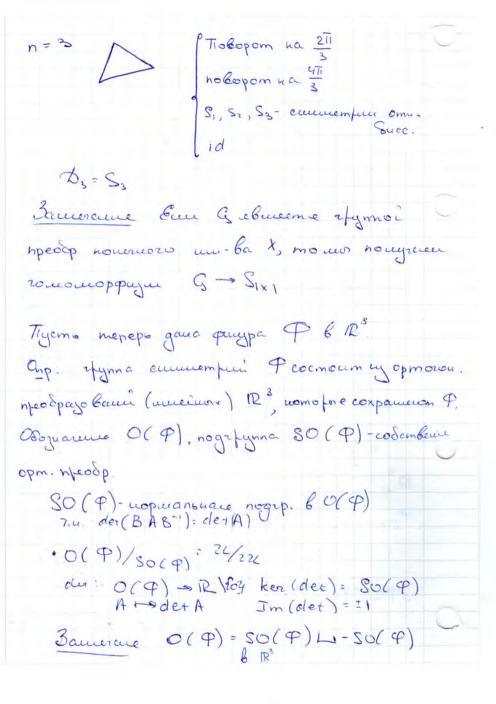
Opguma 2n-ma x odoju. Gx (mozea Ox)	
Преденин от вив. на ин-ве х относитемьно	
tynno nteosp. G no ntabelly xxy, com Jg = G.	
$x. y=gx (x,y \in X).$	
lemma 9mo omn. onb.	
D.xxx r.u. x=id.x ideg	
· x ~ y = > y ~ x Decient. y = g x = > g - 'y = x	
· x~y, y~z=>x~z. Devemb., y=g,x, z=g2y=	>
7 = 929, ×, npuin 929, €	Ŝ
[3]	
augembre 2 opdums cobragaion un ne référ.	
Ba X rebusemue odseg. fajourunx opdem	
Cmasuuyamop. X-Mu-Bo, GCS(X).	
x ∈ X. Thoya Staba (X) = gg ∈ G: g(x) = x g = G	,
leuma XXEX Staba(X)-nogetynna G.	
D 49, 92 E Stabg(x) (9,92) & = 2	
g ∈ Stabs (x), g"(x) = x 7. u. (g(x)=x)	

Theopenia 19/2. Thoraga 19/2/0x/1/Stabg(x) Don-Bo: Tuyomo ye Ox, T.e. y= h(x), heg ev-1 (y) = fge g: gx=y g = fgeg: = of higher h 'gx = x g, T.e h'g & Stobg (x) => gestabg(x) Fax nowems levx (4)1? Bamemum, 2mo | & h & & & state (x) 4/= yeur mene cuela ha h-1-Surya 9-9 The npooppay leux' (y) = = | ev'x (x) = | Staba(x)| 19 = 19 x 1 1Sta 6 (x) G => S(x) G >Gx X · ununecolo

An. 13.1.

Bamesame eux (hx) = h eux (x) Tipequomene y & Gr => Gy = Gx Tiyemo y= x hx - Troega Stabas (y) = h Stabas 1) gestabs (y) = = qu= 4 (= > ghx = hx => (h-19h)(x)=x => h-19h e Sto be x=> geh Stabs (x) h-1 B augantice . 191: 1 States XI VXE X · 191: 19x1 4xEX. Tipocucepon: Tigemo X=G, g(x) = Adg(x)=gxg-G - S(G) Stabs (x) = 9 ges: gxg-1 = x 3 = = gq & G: gx = xg g. · Eur Gaburba mo Stubg(x)=9 · Euce & he adenaka, no Stabo (x) Vx, no comen some a socione Onp. & (x) = ggeg:gx=xg tregg > e O Sta & (x)





Tpynnor newspajoboucu S(X) - rfynna 36. - ogu. omospamen X-X Tiogrefynna S(x) - zhynna njeosjo. Imb. unpequeumens opmorous overamopa where BIR 3 paleu +1. De, ez, ez - opmouspur. Sayuc 6123 A: 123 - R3 Ae, = a,e, + a2, e2 + a3, e3 A = (a ... A opmorou => AAt= E der A = clec At => (der A)2=1. SU(A) & O(P) Bujerusum reomem Samerame cobnagame Dn & U () - 2/ynna comme nome, Tipumep. P-memp-(npaberessuri) O(P)= 34 SO(P) = Sy, SO(P) = Ay, 7.14. cumempure ome. nuocuocome - necodemb. opm. njeodjo.



Onp. Déciembre q: G -> S(x) vey-cre choSopun, ecu p(g) x = x => g = e q(g) x= x Vx E X => g = id Tipunep L: G-S(G) L(g) x= 8 x g 7e, x-musus, ro g + 7 x - cbosog. Tipump Ad: G -> S(G), Adg(x): 9xg-1 Tiyomo 2(Cg) = e (Cg: Sn). Toya ken Ad= = 2(G) Tornoe gérenbre Leunea Tipucoeg. gérembre umoza ne chodogus Ada(e)= gegi=e Vg. T.o. you. chosofucemu napyur neu g=e. 13 Onp. Devember q: G-S(x) may-cre mpanyumubunu , eun Vx, y e X - 3g & G 4(9) x=4 Onp. Opsuma X npu getombeen 4- smo un-bo Gx = & q(g) x, g = G } Banerauere Opénna Gx colon c opénnai x que régionne néesse. In q

Ymb. Déciembre mpayumubus /= > opsuma oqua u pabua X. OSoju. X/a - um-60 opsum. Onp. Cmasuryamop x & X npu genomber 4- nogré. 6 G, cocm. uj Inewermob geG,7.4. 4(9) x =x Teopenia IGI=IGXI·IStabaXI D evx: 3 - x , evx (9) - q(x) G→ Im y CS(X) 19'1=19'x11Stabg, x1 Juanu 1kez q 1 [G' = | G x 1. | nez q 1.1 Stabg, x 1 19×1 G'= 9/ker 4 Tamme odpajour, | Stabg(x) 1= |keryl. 1stabg (x) | A G=Sm, X=Sm, Ad: Sm-S(Sm) Орбита этого действие парашето ушиовани munanu. Tho ecmo hadopanen 1 m. nmn

Bumboi mun gobro zagabama guarfamma Due
Oboquarenne X3 - un bo venogbamaior ge G fx e X: gx = x3
Chodoguos generalies musions ne sem na mare,
a monute - mouteur é oam. bre en ma mecme.
Us moruvemu => chodoguvemo.
×/g - um-bo opoum.
3auverauce Dencmbre charges := > 125
No - & Vare
Décembre monuro => X 9 X Va 1e
9eg X9=81=>1Gx1>1
Theopenia Tronver Depuraiga.
Ticyono 1910, 1x100
1x/51=(5 1x91)/151
D Stale x = fgeg: gx=x3
X9-9xex: gr=x3
FC 94 G x X: F = 8 (9, x): 9 x = x 9

Borrecunu IFI. φ: F - G (g,x)- g 4-1(3) = & (3,4): 4 = x 33 1F1= 21 X31 ψ : F - X (q,x) => x 4 - 1(x) = of (g,x), g = stab x 3 (**) IFI= Z. Stabax (*) | Stabs x 1 = 1 Stabs y1 y = g, x => Yg = Stabs x g,g = Stabs y Stabsy = 9, Stabs X 0-0poura 0-0po 0-0po augo Bameurous 191.1×191= 21291

Trogerem omefeuré. Umeenere noabunement Nyronoum. Pacemonferce un-60 X, como en en en nonquirjangé rucen om 1 gon bramgos bepune Mor omong. glocomen. ever our népelopera gpyr 6 gfyra nousur-ange Premiermon Dr. Hac were prayer 1x/Dn/ (X = n) IX/DNI ZNE X X 9 12 (3n4+4n3+2n2+2n+n6) (стогрим спомена татдой длит ere vie Obigui augran: | X/DN = = 1 2 1 X9 1 × 3/= of n × 2 N rimu N remu Nurim. / X [] . r] = rq.]

Louis	uymaun	n ahynn	,			_
			12 E G			
Ko	eeuyma	amop	9.492	9.92	9. 9.	e g
Ko	recuyn	laum &	G-noge	hynna	mobau	nopory
Teope	ua.	G'- not	suranoun	o nogety	ma 6 G	
	13	×9,9	29, 92'	x = x A ;	x-' A-' ·	A
		uu re	× A x-'=	XAX'A	'. A	
9/	'a' - 200	ene Ba		- 1.94- 1	3	
		Dla	SCBIC	a-13[B-	·] =	
			= [a	Ba-1 B-1	J= Le]	0
					图	
		H- woon	69,7	. rumo G	h - 80	enebc =
M >	2 [J 4a,	beg fa][8][a	::][B-=	Jele]
			Lat	Ba-18-13	· [e]	=)
	Ц.,,		Ba-16-1€			
	M. W	rema	beenpough	necuu.	ica ac	

Thomas G=Sn, S'n=An · Sn · C An T. u. V now remen. · (21)(13)(21)(13) = (213)2= (123). Tropomena manchagueur p: G => H - rousenoppinger a H-abert, ymb. TO G' C KET 4 D φ(g,g,g, 'q, ') - φ(g,) (φ(g,) q(g2) q(g,)=e