Baxapryk Mamailie, That -32 Bapianem -1. 11. Трупа - им-на G д бінараного операціємо \* такого, що: 1)\* - aconsiamubria 2) I recompacioner en-m. eEG 3) Due noncreono el-ma a E G: 7 odepnieneuri a-1 E G: a.a-1 = a-1.a=e · Mavinge 3 son enemeremis je, a, b} a a 8 e a e Mainuege 3 4-ox enembereris fe, a, b, cz \*1eaBc #1eabc easc ma plabe 00600 aaecb Beae bcea clobea coeas ME.

ЛД. Порактеристика кивые-р-ине na=n+..+n=0, ge a ER/gobilone Kilbye), nEN- Mini Malbre. srugo n'ue icreye, mo rilloge ша с характеристику О Megnena Pepula: Hercan de Z, P- rpoche rucio, a = 1 (mod p) Theopera Eurepa: ruyo a e I - bza e unon pocme 3 n e N, mo: δ α (n) = 1 (mod n), ge P(n)-cpi-apprengie Eurepa. Dobegenne m. Repuisa: Blancaemo, mo a EZP, a +1 51, 2, ..., P- 13 C I p-2 pyra nopregry P-1 biguocno renoncerene ja magnilu p Vox nopregox acenerama crinereneros групи дишто поридок групи, то

nopagor evenerum a & Zo gimeno P-1, omne a = 1 8 Up. Dobegererue meopenne Eurepa: Herau 15 a Ln, a - B3 acumon porme 3 n Toplegox yrynu Gn gepibrera  $9^{p(n)}$ , mogi  $a^{9(n)} = 1 8 In$ , a omnice  $a^{9(n)} = 1 \pmod{n}$ . 13. Theopeua sponerepa Haraû F-nove, F(x) EFIXIшиогочиет менульового степеня. Mogi icrye populyrenerus & nous F ma de E, mare, 200 f(d)=0.
Robegereres: Truyo F- nove, mogi s(x) E FIX J wonce dymu pozkuoigenui y godymon respigneex unoroniereib. yeu poznuag - Equeueu z morriconso go nguegry unconcuerib ma мумьтичикативной констания.

muroruere P(x)- reezbigneutina broquemo y pozruag f(x) ma regbigni unoncruere. Ockiloku igeau <P(x)> & Marchillanorchill igeomon & F[x], mo F[x]/(Pax)> - noice Trupibrueaux F 3 guakeme nignoser noue FTx3/x P(x)> underson bigospancererus y: F > FIx 3/xxx) ge: Manara Malens Mal-a+ <P(x) ? acq Y (a)-izouopopizu nome F ma ngname fa+(R(x)); a ef 14, ocx. 1) crop 'Exmubru om buxony croce 2) in Extrebrucht bukonyetbale 3) 4 (ab) = 4(a) 4(b) Y(a+6) = Y(a)7 Y(B) => F[x]KP(x)) - populiquesue F.- E Morancemo, mgo Ide E: P(d) = 0. Hexau d= X+ <P(x)), fg: FLx] >> E: Por (ao +a, xt. + an In) = ao +ar(x +(x)) + + an(x +(P(x)) " , ge ao, ai, an EF.

Ya (ao +aix+...+ an x")-ao+aix+...+ an 0+ <P(x)  $= \langle P(x) \rangle.$ Omnce, Yx (P(x))=0 BE, omace P(x)=0 BE Doblgeno. N'4. 6) x3+1 - ne 3begneur 1109 Z11. Ocx relzbiguicmo- Bigcymriicmo xoperas Un= 90, 1, d, -, 10 = = = = Du/ (x3+1> - populyreneral du d= x+ (x3+1) d3+1 = (x+ <x3+1)3+1 = x3+(x3+1>+1> = < x 3+1 > + x 3+1 = < x 3+1 > = 0 d & ryuen x 3+1 & popularerei 21/0x3+1) Omnee, 6 - max Jose was xapartepuctus inicomments nigkinteres, 2 (Fuicture nignale, про ізапородне Ст

Arrespairent zamernence nous ree Syba E CKI WELLERUILLE A y MCKEM MEMBER MOLIS caparmenuemura ogabnogu. Omnce, 4- max. 2) Tryna A3 - yukui uka zpyna За настедком з т. Лагранаса, екизо в - простого поридку, то С - ункийчи група. 1A3/= 183/=3!=3. tegrpynu pynu A3 witme ms порядки 1, 3, 2. - умкийчий. 2 - max 5) a E igeauou 6 a (VZ) grumepiù: ICR E igeoldou, exujo: 1) a - 6 & I (I - a gutubre nigeryna jon.+ 2) 2/C/ YYER

alexi 5 - Tax ock leton 1) THE N : J Gh: x=e, tx EGin. He hpabga, our populariente n=3. G13: x2/e, tx E G3. Due ropiesky 3 kny E muie Одна група, де не викому сточе 3) Mirinalbrutt ropregox exteres некомутативної групи -6. 6 - man mercuni nopulgor (heromy та тивної) неабильної групи. OCK. 1- avelleba. a,3,5 - yerreliene => avellesi 4 - Melyekuli Ma, and adolde ? Tex 1/3 Omace, \$ 6 - Mallerelleur hopegox 3-Tax

N5. P. q - mocmi rucua, YEN Enaumu ruan reverampit ipyn Upq, Upa Poss'izaninie. Dognie neuro le bunageu: 1) P=9 maigens bai ruara, eri merme ga pa. ma types bracumenpoconi z Pa. ye wara, exi me E unonqueraum p ma f. Dhe of make x unionculeris P-1, a file P: 9-1 Mogi rumo reprepamopi Bque log ppu Pfq: (PQ-1)-(P-1)-(Q-1)=PQ-P-Q+1= = (P-1)(q-1) 2) lkeyo P=8 marigemo rucia, meruni za P2 ix ogge: P(P-1) Togi renepamopil syge: P(P-1).

Buoley, 2pt manuale confibree remepamopile excloser ix me po ujo € bja€unonpocmunic go po Moomo, nompiono Buxurorumu Bai unoncreuke P. Dalbulke Pt leke Franciscon guns 1, P, p2, pt. 1, P, p2, pt. 1, pp2, pt que x E ZDB, moy HCD(P,x)=DB, gue exeex 3 ef 1, 2, ..., & 3. Omna, PIX, i mogi x - KP que geleko k. Modmo, x=(kp 1)P. llaroru, myo t, pel mo kp 3-1 e 2 Makeul reemon, X & unionence kan P, athalblue and elleuremu, up He bjaeurospami go pa MNONCHUKAMU P. man repulle unononeux P: OP=0 MOUTORIBHELLE : PE

Omnice, unoncourse PB Zpf: D, P, 2P,..., (P9-1-1)P.

Mogi Brac P9-1-1+1=P9-1 MINIONC-MUKIB PB Z08. Mogi rerepampil tyge p8-p8-1. Bignobiff: que IP & aso (P-188-1) 200 P(P-1) Blue 2/9: p3-p8-1