The Jeosema fundamentalà de i vormoiform peruteu f: 61-3 62 Atuma Ferf = hul Im f & 62 (demonstrat in cursul precedent) Ker L= 4 X661 | L(X) = e2 - el. neutrison 61- el. neutre 61 kerf & Ga Remontrate TF16 Fie y: 61 / Fert > Imf prindende y(g) = fcg) Trebail na demonstrain ca I hime definita, morfism de grupusi, functio sijettud 1:61-3 62 malism de grapure. 91292 => 4(21)24(22) 512 Slik 32 hettert 20 f (h) = 0 9(gi)= f(gi)= f(l:ge) = f(h)*f(ge)= => 4(31) = f(32) = f(31) = 4(3e)

4(\$12 2) = P(g1+g2) 24 (g1+g2) = f(g1+e) = f(g1) + f(g2) 2 y (gi) x flgie) - deciste morfism 1. Fundia Perty myectiva The Xe long (=> X= f(g) mjediustabi 9(g/1)=4(g/2)=> Ag12g2 9(g/1)=4(g/2) * 9(g/2) 2 4(g/1) * Ag = q(gí) * q(gí) 2 ez ((71 + 921) = 1(91 92) * (2) 1 (91 92) = ez) grytz etertos grzhaze (=) frzg? Atma Feet 2 lmf Obs (G1,), (62, *) grupur f: 61 > 62 morfimme de grupur, surt addervarate amatoorels etimolis a) festi implotiva 5) Kor fet #7.

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Jeste impotera. Keef=fent 3192861 \$1901= f(\$2) f(21.51) = f(21) xf(31) = f(31) xf(31) = 20 f(h)-f(h) = 650 21.25=646, 21=25= ? L'impetina

Juna divocation must primil prenume.

1) Cate martine de grupus' (2 m, t) & (2 p, t)

2) Ente adevisat ca 2m ~ 2m ~ 2m × 2p

juntification (+) (+) (+)

3)

Aphratu Jevema (G, ·) grup ciclic =) (G, ·) ~ (22,+) ran persontration (G,) ~ (2n,f) pt ment C= { hm | n < 2 } f: 2 > 6, f(n) = h , h < 6 a) forte myjetina, devance Gestraiche 5 le injectiva morfism de grupuri f (mtm) - f (m). f (m)a) TF16 That 2 lmf 26 Daca HS(D,t) alunei H= m2 (demonstrata la remisor) =, furt 2 ma 22 company of the land Daea n =0 => Karf268 => fingethis (2) Daca m > 0 =) m2 = 22 m

4/

Problema bornes ABCDEF GHIZKLMNDPORRSTUVWX & E 123456 7-89 to 412 1314m61713 1520 21 22 2324 25 26 Caresar wift CER 2UW]

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OUDY DOJY I TOCAXFCY KMODIHFM

Imgine anout 26 (Abeautiful mid)

(6/2p - prim (O,1) grup G ~ (22 p,t) The xe 6-her found (x) 2p

K, x 2 1 x 3, ... , x P - 1 elmete distincte, daça ord (7) 2p => contradicte => X + X + .. + XP-1; ~ 62/x, x2, ..., xp-ip ge62.7 i e 20,15.12.13 al g2xi Texercition fundia este isomorfosm de grupus Jennimen group au 4 elemente. [G/2 A+ 2) 60 22 fg G ~ 22 fg X 22 2 Inte-mgrip (6,2) X,7 & G (xy) = 1/x-1