Algebra #13 4 probleme 2 standard media 1 glea > Multi mi. Francti Cardinalul unei multimi > Inductive Daca melM, n > 3 nà revolte cà F a1 Laze... & an 1 0 + az + ... + am 2 1 H motor 1) Verifiance nº3 $\frac{1}{a_1} + \frac{1}{a_2} + \frac{1}{a_3} = 1$ 1 2 3 6 $\frac{1}{\alpha_1} + \frac{1}{\alpha_2} + \dots + \frac{1}{\alpha_{m-2}}$ $\alpha_1 < \alpha_2 < \dots < \alpha_m$ 2) Parul de inductie $\frac{1}{a_1} + \frac{a_2}{a_3} + \frac{1}{a_m} \left(\frac{1}{2} + \frac{1}{3} + \frac{1}{6} \right) = 1e$ $\frac{1}{\alpha_1} + \frac{1}{\alpha_1} + \dots + \frac{1}{\alpha_{m-1}} + \frac{1}{2\alpha_m} + \frac{1}{2\alpha_m} + \dots = 1$ CM-122an Clam Com

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P(M) -> P(MAR), AMEN Verifical pt m = 4

1 + 1 = 1 = 1 = 2 + 2 + 3 + 6) + 2 = 1 (2) \frac{1}{2} + \frac{1}{7} + \frac{1}{6} + \frac{1}{12} = 1 P(3) admorts P(4) advout Y(m)=>P(mfz) advant > Struduri - Monord Grup J: 66→6 - op asociativa - element neutro - inversal armi element (calcul) m - \$ 10kg KEN'S (xn.) (mmulljæ dejemuta

X * y = X y + X + y = X y + x + y + 1 + 12 MJH) +y+1 -12 (X+1) (M+1)-1 (X+1)(y+1)-1=0100 X++ -1 JEIR 14-13 (7) ~ M & mana, q Crupuri 1) (2m, t) Me(M* 2) ((2m) = fā [a e 2, (a,m) = (7 2) ((2m)) = fā [a e 2, (a,m) = (7)] (1) = fm - lindialini Eater 3) \$ m,0) 9) (62*) ((G1 X G2), L) (a1, b1) L (a2, b2) 2/9/102 1 grup (U(223);) 11 X = T (-(-4) ps -44x2-4 =) 30 x 33 x

(345)

Cu algorithmul hui Euclid

111 in (U (22017), +) 2014 + 111 18 2014 = 111.18+19 111 = 5.19+16 19 2 1.16+3 16 = 5.3+1 3 2 3.1+0 Se van caturel a excepta allinen $\frac{18 + \frac{1}{5 + \frac{1}{1 + \frac{1}{5}}}}{1 + \frac{1}{5}} = \frac{18 + \frac{1}{6 \cdot 15 + \frac{1}{5}}}{1 + \frac{1}{5}} = \frac{18 + \frac{1}{35}}{35} = \frac{18 + \frac{1}{35}}{35} = \frac{1}{35}$ $\frac{2014}{111} = \frac{636}{35} = \frac{(-1)^{10}}{191 \cdot 35} = \frac{1}{191 \cdot 35}$ $\frac{18 + \frac{1}{18 + \frac{1}{5}}}{11 + \frac{1}{5}} = \frac{1}{191 \cdot 35}$ $\frac{18 + \frac{1}{18 + \frac{1}{5}}}{11 + \frac{1}{5}} = \frac{1}{191 \cdot 35}$ $\frac{18 + \frac{1}{18 + \frac{1}{5}}}{11 + \frac{1}{5}} = \frac{1}{18 + \frac{1}{5}}$ $\frac{18 + \frac{1}{18 + \frac{1}{5}}}{11 + \frac{1}{5}} = \frac{1}{18 + \frac{1}{5}}$ $\frac{18 + \frac{1}{18 + \frac{1}{5}}}{11 + \frac{1}{5}} = \frac{1}{18 + \frac{1}{5}}$ $\frac{18 + \frac{1}{18 + \frac{1}{5}}}{11 + \frac{1}{5}} = \frac{1}{18 + \frac{1}{5}}$ $\frac{18 + \frac{1}{18 + \frac{1}{5}}}{11 + \frac{1}{5}} = \frac{1}{18 + \frac{1}{5}}$ $\frac{18 + \frac{1}{18 + \frac{1}{5}}}{11 + \frac{1}{5}} = \frac{1}{18 + \frac{1}{5}}$ $\frac{18 + \frac{1}{18 + \frac{1}{5}}}{11 + \frac{1}{5}} = \frac{1}{18 + \frac{1}{5}}$ $\frac{18 + \frac{1}{18 + \frac{1}{5}}}{11 + \frac{1}{5}} = \frac{1}{18 + \frac{1}{5}}$ $\frac{18 + \frac{1}{18 + \frac{1}{5}}}{11 + \frac{1}{5}} = \frac{1}{18 + \frac{1}{5}}$ $\frac{18 + \frac{1}{18 + \frac{1}{5}}}{11 + \frac{1}{5}} = \frac{1}{18 + \frac{1}{5}}$ $\frac{18 + \frac{1}{18 + \frac{1}{5}}}{11 + \frac{1}{5}} = \frac{1}{18 + \frac{1}{5}}$ $\frac{18 + \frac{1}{18 + \frac{1}{5}}}{11 + \frac{1}{5}} = \frac{1}{18 + \frac{1}{5}}$ $\frac{18 + \frac{1}{18 + \frac{1}{5}}}{11 + \frac{1}{5}} = \frac{1}{18 + \frac{1}{5}}$ $\frac{18 + \frac{1}{18 + \frac{1}{5}}}{11 + \frac{1}{5}} = \frac{1}{18 + \frac{1}{5}}$ $\frac{18 + \frac{1}{18 + \frac{1}{5}}}{11 + \frac{1}{5}} = \frac{1}{18 + \frac{1}{5}}$ $\frac{18 + \frac{1}{18 + \frac{1}{5}}}{11 + \frac{1}{5}} = \frac{1}{18 + \frac{1}{5}}$ $\frac{18 + \frac{1}{18 + \frac{1}{5}}}{11 + \frac{1}{5}} = \frac{1}{18 + \frac{1}{5}}$ $\frac{18 + \frac{1}{18 + \frac{1}{5}}}{11 + \frac{1}{5}} = \frac{1}{18 + \frac{1}{5}}$ $\frac{18 + \frac{1}{18 + \frac{1}{5}}}{11 + \frac{1}{5}} = \frac{1}{18 + \frac{1}{5}}$ $\frac{18 + \frac{1}{18 + \frac{1}{5}}}{11 + \frac{1}{5}} = \frac{1}{18 + \frac{1}{5}}$ $\frac{18 + \frac{1}{18 + \frac{1}{18}}}{11 + \frac{1}{18}}$ \frac (a) 2017 +35-636.111 = -1/21-636.111=-1636 Treamin 22 2017 2017 2017 (2) 111-636=1 (2) 111-636

Thomas - Tevena huitealer

(a,n) = 1, m e/N*, a e-22 => m/ (a 4(m)-1)

- Mica Tevena a huiterment

p prim, a e 2, pta, p/ at-1

- Th lui Wilson

ppum = $\int |(p-1)(+1)|$ $36! = 36!35...-2\cdot1\cdot2(-1)(-2).8\cdot(2\cdot1)=$

Mará outen, orbita, close conjugate Serbyrup normal. Grup lactor

Th lui lagrange = g = edaca = (6, e) glup, + = (5, e) = (2) |H| |G|

Orden ul mu'alemont (mascata)

Ex: 216+1-mor prim

1) gordg 21

2) g^M=0 (a) Ordg/m

3) ord (g) [6]

9) ord gk = (5, ord g)

5) ord/21,92) = rmme (ord 21, ord 22)

Gainstitoale un prime pt car p, 2 prime

6/

Judomentala Teorema de casan orfreson de grupuri (B1,.) (62,4) Exemplu de subgrup mormal nethorial in Sm

0. 1 1 12, Gn, e) (62 = (41), e) 0gm(1,2)2-1 (c) myichia fuetia are sens Am = for Sn/ sgn(o) 2/2 2 Kerh $|Am| = \frac{|Sm|}{|Sf|} = \frac{m!}{2}$ Problema glea Of (Sp,0)
otromprovidu du por un cidu de lugino pro(=) Emversed lu Sa oraldon ca oula vilu e produs de tramposettis

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