SEMINAR 13_132

IDEALE IN INELLIL PRODUCS. J. Fre R12 mele unitere Re JSOR not PIXR2. opening of a betw. I Platain: I, = } HER, : = y +Rz (x,y) +J & IZZ & YERZ! JHER, CAIY) EJZ. ((co 2)) in the production lui Fre thite II. Atma' fy,y'ER2 (x,y)eJ>(x',y') Cum J&R, (x-x,y-y)=(x,y)=(x,y)=J. Co urmare, x-x' & In. Rie atR, * X EII. Atmed Jy ER2 (x, y) & J Cun = 7€ P, (ax, 0) = (a, 0)(x,y) € J Dea' axe In Prin umare, In & R. Analog, I2 E'R2. Us; I C I (× I2 (col)) to man electronic control Re (xy) & I, xID. Atheral, 3y'eR2 (x,y') EJ 3xER, CX, Y) EJ.

Atuma' (x,y) = (1,0).(x,y')+(0,1).(x,y) = J I, × I2 CJ } => J=I, × I2 de montrale le formado de la factor de la fa Props Once ideal al meni produs fruit!
de inte muitare inte produsal mor
ideale (de a celast ty cer el) ale factor/or.
produculei. PSI Ramane a cert regulfat aslevorait pt un posseus infruit de mele muitare? Tide ce une place a cert regultat? R: Consideran Junule Giz Ez à Ge = Ez Son. lui G1 omt 203 21 Za? de de avoi office cel mult 4 mg. cel mult 4 mg. de pomo Hixthing. G 200 GAXGZ ZEIXZZ 00 00 01 10 11 Problems Olene Hell Dun 12 (1) December (mil tome manual 200 2 <01> = {00,013 } 5 \$61,00\$ 5 501X Levi: No orice mogny al neur product about grupmi all footstor a celui produs! Asta arata cà situatia de la rdeale e ma

remarcabla! INFLE FACTOR ALE INFLUTIN PRODUS Props Doera Ri..., Rn mid mele nuitore, for JAR matrix Rix...xRn, string exists IIARI,..., INAR, orga most J= InxIxx...xIn & F=FOXIXV-XIN II = XXV-XIN for pt m > 2 ar Whar!) Considerain f. R - RI x RZ,

「(後,後) = (元,大) Fre x= (x11x2), y= cg1, y2) ∈ R. f(xty) = f((x,ty, x2ty2))= (x,ty, x2ty2)-= (x1, x2)+(91, y2)= f(x)+f(y) f(*y) = f((x1y11 x2y2)) = (x1y1, x2y2)= = (x1,x1).(g, y2) = f(x). f(y) 7((1,1))= (1, 1) Deas f ete morfism miter de mele Pre (x1, x2) ∈ 1 x 12. Atuna fl(x,,x2)) = (x,,x2).

De als fe mjestiva, de mde luf= P1xB2 FIET=(x1, x2) ER. (1x) = 0 (0,0) (x1, x2) = (0,0) (-1) (x, = 0 x x2 = 0) (=) (*1 + J, x x2 + J2) (=) * (I, x J2 I huelel factor ore: Olc: Pu R Totues allo senter . {*+I: * ER}= 1 + : * ER a=500 a-beI · Operatable
(***)+(y+1)=(****)+I ***************************
(***)+(y+1)=(****)+I.2.y-**** àzô (acī

De col, Kar-f= I, ×I2: Conform T.F. izem (pt male) $\frac{P_1 \times P_2}{I_1 \times I_2} \sim \frac{P_1}{I_1} \times \frac{P_2}{I_2} \left((\overline{x}_1, \overline{x}_2) \mapsto (\widehat{x}_1, \overline{x}_2) \right)$ Corolar Duce MENTISIS of doce Py,..., Ru mut mèle unitère 4 daca I,AR, IzAR, ..., Inak, PIXR2X...XRy MRIX RZX...XRy In II. IZ In Execuply Determinate todealele of , jana la igomorf su, melele factor ale melului Sol: Polowy urmataule! 1) Dorca R112 smit in el muitore of I, 4R1, Is A12, atma 5,x15 = 1, x 15, money 2) Donca R_{1,2} muit mele muitre, en ce roleal d'late-ral al leui R₁×R₂ e de forma I₁×I₂ en I₁AR₁ of 12 4 R2. 3) Ou ce ideal al mui reli commitation e telateral for IR of Exp must make commutations 4) Idealele lui Z, mut cale dei 3d Zp: d/123 5) Riended Re cop, I dealite leu' 12 mut (0) of 1R 6) Postar orice mel R, = (0) F) Doca MENTERS & dlm, En ~ Zd

