Inele H copuri Def Un inel ete un triplet de fina (A+,.), unde d'éte a mult nevido 11+, dois n le l'au mon of the A cu propi 2) (A, -) monde 3) En meltines e d'Arib felo de adurare 0(b)e) 2 06 + ac + de, be A Det Un inel rend du coe vice elevent neml este invendol æ nureste sy. (R) + 10 ) well combone

(R) + 10 ) (R) + 10 (C) = C

(R) + 10 (C) + 10 (C) = C

(R) + 10 (C) + 10 (C) = C (12,+,0) Hn712, (72 n, t, e) este com en este us prim

72n este com en U(72n) - 2n (86) (2)

(2) An reprime au n se divid au n en prim (72, +, .), (725, +, .), \_ corpusi Z[i] = 39+61/0,6 € 724 € C (TL) ind Tre 2,= a + bi e/[i]; 9,6 e/l.

2,6 (7(i)) en 7 22 e 267, 32= c+04/9/

al (a + bi) (c + di) -1 (0 x61) (ctdi) =1 Del: Spurem co inclul A are during a lutino, co I x y t A x y to al x y = 0. Rinel; +ny 2, ((a), (1,0)=(0,0) an divital or less zero - GL (R) - grupul general linder de ration (R) - SAEM, (R) del Axol GL (726) = { A em (726) amode (det A, c) = 1} The a, be IR\* , c CR

Sel go IR leged de con

X \* y = a × x by 1c, b × yell

Ned c, b, c ac (IR, \*, \*) so fre cool Ce drewol?

Vent once lui \*: (xxxy) \* = = xx x(y x +) ) \$ 2 = x & (ay+l2+c) = ax + b(ay 1 bz + e) + bz + c= - ax + b(ay 1 bz + e) + e ax 1 eby + ac + bz = ax 1 aby 1 bt Com este evolente Elem neutre , x & e = x. XTYPICZX tlen in (H) x eil = 7 x 1 e /R & x x x 1 = -c 1 e1c=07 e=-c. x+x-1+c=-C x-1=-x-2ce/R t = x (y 2) A) don't com Dretabulatos) XXY) bcxb xyz (x+ y+c) & = x2 + y2 + C nc=ct tiell x2 +4 6 1 C 2 - x 2 + 4 6 + c 71 C=0 Dec xx y= x+y in concluse, I un singur inel (112, 4,0) on man to leseo & e de fre x & y = 0 x + by + c, c, 6 6 112 4 e & 12 some (12, +,0)

= a Dam idempotents DIS se retor sist de cc ju melel 72/2 \( \frac{3}{5} \times \frac{2}{2} = \frac{1}{5} \\ \frac{1}{5} \times \frac{1}{5} \\ \frac{1}{5 a)(-)x +y = 1 12-(2x,2y-2 ) (=) x=1=) X=11=1 y=2 b) at 3 12-17-528.2 +1 2 M +3-1+1-1=2

D 7B EA se numerte rebinel adies x-yEB, HxyeB ete stelle ar cop cop en NE Syers, Hx, yers (0+61 3asbila, bett & St. Mardi 1-110.6676676 Alt exemple inel. Se numere exteal plans o muly Jy x yel y och, rej A = comut => ex = x a - not de ideal stg = id dept 3 55 se studiese doct rerm submultimi sunt ideale fe7/Cx][ grod (f) 7/67, RR R=7/Cx]. nelele repe due: of In 077,= f-g=x+x-x=x & J, ~ J, mu e ideal sa Max) f-g=x+x-x=x & J, ~ J, mu e mbinel fe72[x]| god f=s/U(0). = x5+x2 = J2 dotte 7-9=xxlz=12 nu e Noted 17/1/17

