Daca plas Dace plas LES, 52 - 15, 03 - 102 - 36 A223 - 2233 20 332-422 discommand In a variable - REX, polmouse 3 d 10=53 Formulal lu Newton Kam pk-sipk, +sipk=0 Daca t= Ken : pk-apk + + + bx = 0 Cg/ (Z,+,) (K[x],+,), K= corp comutation Cum les catel si restel sunt unic determinate a) Z PEZ, p+0, ±1

PEKEXJ, gr (P)7/1

Plass plasample PIA.B > PIA sam PIB PK[X] ireductibil PEZ, p +0, ±1 Pek[x], gx (P)>1 P=millet p=a, b=>a=±1xanb=+1 P=A.B=> gx £13=0 san gx B=0 lolema ledena a) in / m pin 2=> m. reductibil a) Dace b) in K[x]. elem prim (> elem iteductibel Nem a) = pet prim P= 26 Vien pr unductable Dem : tre a, 56 / 2.2. p=a5 => pla.b +> pla san plo plasia/p deci a ~ p=> a=tp p= u.p. b=> 1=u. b=> b=t, uef1,-1] atuna XIEK, (= pell, reductibil Dec. P them p = prim e) Da a, be Ca. 2. Plab > Jee We. 2. P. Cidab atuna

Dace pay but pt => (P,a)=1=5]d,Ba3 Pd+aB=1 b Pb++a.b.B=b P. b. 2 p. c. B. 6 p (6 2+e-B) - 600 Am . 6) The de II un din . comun pt a 2 BP Lhole dp=>]tella 2. p= ta=> t=±1 sand=±1 Taxa d = ±1 / baca t= + 1 => d= + p => = = = (tx) => pla do & comulation Cum recurresc numere (T) son polinoance (K[x]) princlud? unt unic determinate a) 71 / 11 on IR[x] - pol used unglad 1

on IR[x] X+12 (X1+1x2+1)-1X2 Pading b)K[X] m PIB En R[x] - pol. red ou grand 1 san 2 3=0 sang(B=0 Ex PEKEX] grad (P) 21 a) Societ good (P) = 1 => Pieductibil gad (A-B)= glad (B)+ grad (B) iteductibil P= 2x+4 ER[x] P= 2(x+2) Dem: P=A·B, ABGK[x] b) Daca Pare o rad Ink, gra ge (P) >2 san plb *16K, rad. pt P=> P(x1)=0=> X-x, IP Sec P2 (x-xy) F, grad (F) > Pon este reductible e) Dara grad (P) = 2 sans 3 30 dara Pom are raid on K, dab alunci Parte reductibil

Dem. PA. pok[x] gr (P)=2 san 3, Pm are rad Fa, 5]. P= reductible => JF, G &K [x], gr (F)>1, gr (G)x 1 hop. P=F G => unul din factor (de ox F) are grad= 1 F= aX+b a +0, a, b & K are original in K lederna : a) in a once munas to, to se some unic sa dla 4 produs de numere prime b) in K[X] wice polinom de grand 71 re saie unic ca produs de pol red 6) cm 6 = 2.3= (-2) - (-3) x2-12 (x-1)(x+1)= (2x-2)(0 5x+0,52) Dem. a) meN m 72 Daca n= ireductibil -Daca a + reductible => mia b, a sEM, a 572 Dem. aban m=P.Pi Po-2, 22 2 Po, 9 indictible lorme P6 9, 22 25 Sapp P6 925 7 CET pt & ileductibil (pim) Seta >25-P6 =>P1 P2 -- Pt-1 (+q) 92 -- 251 P.A. 1= 2, 2, 2 5) NGK[X] polimon de grad >1 dara Nued dais N reduct => N=A.B. ABEKEXT pd de grad 7/1 ex: 22-52- 41 5= 24.5.32.416

