m e. M(x) genumes na m(x). BAMENAHUE (O HOA n'HOK npourboussione nadopa un-b) D/omeracion HOA u HOK recusionum (>3)
unorsurerios ususuryosan cuegorousus
penypperinicus repoblica: HOA (5,(x), ,, Fm-,(x), Fm(x)) = = HOA (fm (x), HOA (f, (x), ..., fm-, (x))) HOK (Fi(x),..., Fm-1(x), Fm(x)) = = HOK (HOK (Fi(x)), , Fm-1(x)), Fm (x)) Transe moro que HOA (F. (x), Fm(x))=d(x) chableques judepurgenue à une inventrain regenus-Cyujecubyrom mauce u, (x),.., um(x), mo d(x)= 5,(x)u,(x)+..+ 5m(x)um(x) 4 Теоремя о факторизации One Muoronen P(x) & F[x], deg P(x) > O nas neupubogumum (mornee, renpubogumoum nag nommu F), egun P(x) neusya nois novier -), ecui $P(x) = P_1(x) P_2(x)$ $19e \ deg \ P_i(x) > O \ (i = 1, 2)$ P.(x), P.(x) & F[x]. I pumepoi 1 P(x)= ax+b ∈ F[x] reenpuboguin rag

2. $P(x) = x^2 + 1$ renputogene nag Q in IR; rag Cmom sinorerien toputogene: $x^2 + 1 = (x + i)(x - i)$

3 AME YAHNE

Lonanue reupuboguissemen interorutte ru ahr. adcontementation, m. e. écour P(x) EFEXI renputoguis à FCF, mo P(x) moncem onoxamises repuboguismen rag F

Nemma (ocuobuse obstiento rempuloqueme unosoneros) Nyema p(x), J. (x), Jin (x) & F[[x],
nourem p(x) reenpulagion Ecun F. (x) Fm (x) gennes na p(x), mo ogun us unoucumsencen Fi(x) (i=1,..., m) general na p(x) Ayens, om aponubrow, un ogun us Si (x) ne glumica na p(x). Morga MOA (> (>), J. (x)) = 1 gu been i = 1, ..., m Ho & mansur currae repossagercue brancisco repoemo c p(x) no cb-to repoemore uno concerno en nomosta general na p (2) - uponuloperte Теоремя 9 (теорена о данториции) Syums S(x) & F[x], deg S(x) > 0 Korga egyeembyen parvoucerme S(x) = p,(x) pm(x) (+) 2ge pi (x) (F(3) = 1, , m) - reenpubogenium mag Fun-n Ecun F(x) = q, (x) ... 9+ (x) game mance parmoncerne, me t = m n, bonnous notice reperquentarium, $p_i(x)$ accounterance $q_i(x)$ (i = 1, ..., m), $m = q_i(x) = c_i p_i(x)$, $c_i \in F$, $c_i \neq 0$ LOKASATENS CTBO Cyuseembobarue parisucerus (+) orebuguo unionaricera SIx) 6 teensissin unconnected сменени, к-рое обязано состоять и

Egunombernoems, one reprebuges laccia neures Journolines, one reprebuges laccia neures Luxuriminamentaria cucmena, aparag-tencausia Tunosepny-S= {4k+1/k=0,...} S-myimmunimamubuse un-bo, esgipuca-use Egurung (anomer nomypariores page) Tueno p E S razolem necembra, eccur rebonusiario necesariali escur $\rho = \rho_1 \rho_2$ zge p,p2 ∈ S, p, >1, p2>1 Tuena 5,9,13,17, - npoembre. Orebuguo, mo mo spotose rueno a ES pazionarinese 8 upourbegerue apoemine a = pipzinips Ale equismbernoemin parisucerine um 441 = 49.9 = 21.21 Donancem equiconbergo uns unovoriera S(x) npour be gertile mempitoguilina unoucumenti. Кусть 5(x)=p.(x)p2(x) - ps(x)=q1(x)q2(x) -q4(x) gba manur parisucereus lebas rainis musio pas-ba (a zarrum u npasas) gennuca na p.(x)
So menuse ogun u investorioristas q:(x)
gennucl na p.(x). Hyens, nampunes, q (x) gennine na p, (x). Han nan q, (x) nempulsamien un-h, mo q, (x) nonopononance p, (x), m.e. 9,(x)=c;p,(x) ige c, + O = nonemarina. Conjuncias na p. (x) usuyrum: P2 (x): -- Ps (x) = C, 92(x) 9 = (x) Remonde sino paccynigerine rejuccioe noi-bo

1 = c, · · c s q s+, (x) .. q (x) (crumaeu, mo t≥s). Non t > s Sygen unems aponuboperus i = 1, ..., s) Osurno pareoucerus gannoro unovoriena 5(x) EF [x] na henpitoguiune sursucumente zanucutarom S(x) = c - p, (x) k, ... ps (x) где р. (x), р. (x) попарио ченроноримонанния поринрованные неприводиные над F им-ин (поринрованные - старини поэд - единица) Ima zanuce equicimberina e mornocuiro go nyucipazion sin-nol p.(x),..., ps(x) THORANGE ZAMUCE MAJ. KAHOHUMECKUM PAZNOXEMNEM LUX HA FED) EF [X]. Ecul intermed nanonurecuse produceriue un-not 5. (x), 5 m (x) EF [x], mo ADA u HOK mune un 6 usign Sume naugeren nou nomenia SAMENAHUE Ha noammen neguormunicione boodise whose, usuoissobanis que omniciarius HOA'u HOK amopulana Elucuga. One Lyons F(x) EF[x], S(x) = anx + . + a, x + a. Урошводной этого ин-на наз. многочим 5'(x)=nanx"-1+...+a, EE[x] Boeco kax norminaenica nan ax+1..+ax 1 (pumer F=F2 - nove ug 2x su-mob Hyprus F(x)= x2+1; Morga F(x)=(1+1)x=0 Dance digen crumanis, mo F-nose rejulion rapannepulmenu (char F=0), me. Equilie bliga 1+1+..+1 ommerser on ryere B mon cuyrae, van verno bugens deg f(x) = deg f(x) - 1

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