Důkazy 2019 neděle 21. ledna 2024 16:02 pohud hu nijaly dribes nen, tal je u jine slosie 10) Null A: FT je mobile. Char. polynomim A magnini polynom chari(A) = Ml(A-NE). Change chang (2) = chang (2)? Vine, re del (t) = del(A) a re oberne plot (C + D) = CT + DT, leb (,D & Lin()F"; IF")  $dM(A-\lambda E) = dM((A-\lambda E)^T) =$ = deh (AT-AET) = deh (AT-AE), var je charat (A) a definer Augusti Bje talora læg re lleri je A produroro Arorra a Dje nativ Arai B. Tely A = Tox D | KAB. Orraine BAK jolak joh A=RDR del(R1)= del(B) protese  $dul(A) = dul(R) dul(D) \cdot \overline{dul(R)}$   $dul(E) = dul(RR) = dul(RR) \cdot dul(R) \cdot dul(RR)$ => 1= det(R). det(R) dul(A) = dul(D)  $D = \begin{pmatrix} \chi_{i} \chi_{i} \chi_{i} \\ \chi_{i} \chi_{i} \end{pmatrix} = \lambda d (p) = \lim_{i \to 1} \chi_{i} = d (A)$ => ale dul(t)=del(t) = It xi ledy A, A maj slina vlestni cisla o vine, ve chor polyrosu je morne reslisit na lorenosi civille, ale vshledem h lore, au A, A meji slipia nl. iisla, leh chora (1) a clara (2) ludou mit slipiy noseled Herselajadne Avrzeni plahi sodove det (tB) stal sonon na R2+2? Thurme prom'axion define shal soveror Vjrv.p. nodlF o  $g: V \times V \rightarrow F:$   $\forall x, v, w \in V; n, s \in F: g(n, w + s, v) = u g(n, w) + s g(r, w)$  g(n, s, v + r, w) = s g(n, v) + n g(n, w)ledy melo by pletist: f(nA,B)= nf(A,B), lule f(A,B) := dul(AB) The state of the s ale f(rAB) = M(rAB) = n2 dh(AB) = n2. f(AB) bely f nerodora skal, somin, jelilis nesplinge 1. akrom  $prohipulled: f(-2 \cdot {10 \choose 01}; {12 \choose 34}) = dul({-20 \choose 0-2}; {12 \choose 34}) = dul({-2-4 \choose -6-8}) = 16 - 24 = -8$  $-2if((01)i(12)) = -2\cdot duf((01)(12)) = -2duf(12) = -2\cdot (-2) = 4$ publi At R2x2

russym A. irslin, a, a2 \$0. Pal (v1/v2) je LN seznani. Milt fe fin (V) beh V je veltury
proster had It dinerse 2 a neith K borombi
lise V. hull f je nolero tah, ze
[f]\*, váj melie f práci K, ze nerve t. f (ry + r2) = a1 r 7 a2 r 1 lde a1 a1 + 0 , 2 def. 11 r 2 + 0 Pridjohludijne so vyvz jour 27 john. (princens v<sub>1</sub>, v<sub>2</sub> t 0 = 7 f, B t 0, prolose bolyly rapi. d=0, loh i B=0, ale my predphlodone, se v<sub>1</sub>, v<sub>2</sub> jean LZ) dry TBrg = 0  $N_1 = -\frac{B}{\lambda} \cdot N_2$ slusme disadil: f(-\frac{3}{2} \mathred{r\_2} + \frac{1}{2}) = -\frac{1}{2} \beta \mathred{v\_2} , ale to se da piepsal jeho - \(\frac{1}{4}B\). \(\frac{1}{2}\) vig i va je ale stor, jeliliz boefinent pred velderz musi byt nenuloni. (i) span(M) = L = > M jold NJelilva din ([]=n, tal dinu (span(M))=n,
ale M ma prove n parha tely
M mier ly (LN, protize hdyly lyla
LZ, tah din (span(M)) ~ dni(L), az je spar. spor (M) = spor(L), ale spor(L)=L > luly spm (M) = L Ale MjeLN aman penha, ledy dim (spor(M))=n

a nome: dim(L)=n Robin W= W1 1 W2 1 -- 1 We je (Tripi bo plati, sjedrreini ali jodyn. byl nemosi) Wip princh => WtW, & WEW, & ... WE We - lim jadur nutni i spon (V) & spon (V) & ... & spon (W) & spon (Wa) - ale my mine, že VI... Who jour padprestor teda
ploti: spar (V)=VI..., spar (Va)=Va Les without: span (W) = Wyd ...d span (W) = We => logils sjegle ", &" je obdele prinile pro mrsig, napri jullise span (W) & V, & span (W) & V2, Mah va span (W) = W, 1 W, 2 predpolledt celboni ledy: spor (W) = Mi = Wi => spor (W) CW, vær je dil. podpostoru Evenuly Crumur a dohor.

(medpebleda pro SLR) puehl A: F<sup>n</sup> I je regularni matio.
Neett f E F. Osnaine Ai, a jaho matiu,
litera vinilne nahrusenim i-bilo strupe A rehloren f. Polom pliki, se i-lå slish e, klerg nese Are = b se posito lello: hubt e nesi Ax=h- Im pudim Pluti: f=\(\sum\_{j=1}^{m} \times\_{j} a\_{j}\), hele a i pere slorpe natice t. Dali: del (Aira) = del (un ---, un jih jain ---, un)  $= did \left( a_{1} / ... / a_{i-1} / \sum_{j=1}^{n} x_{j} a_{j} | a_{i+1} / ... / a_{n} \right) = delta did did delta)$   $= \sum_{j=1}^{n} x_{j} \cdot did \left( a_{1} / ... / a_{i-1} | x_{j} \cdot a_{j} | a_{i+1} / ... / a_{n} \right) = (i \text{ ridly } delta)$ = Wi- Lul (4) , --- , ai-1, ai, ai, ain - , an) = wi- dul (A) prime, sie det () = 0, robed om 2 slaupee slijne, bedy falnet se i ≠ je dal Mome vädy bedoort slijne slaupel, l Cesa vede le syprolernie => del(Airb)= di-del(A), jsem hoter