Линейни пространства F-none < Fo+, ·,> V- пинешно пр-во над F < ₩, ⊕, @> 1) <V, +> aveneba yoyna

2) 1,000 = a YaelV 3) (1+µ) Oa=20a⊕µoa 4) 10(a + 6) = 20a+206

5) 20(µoa)=(2.µ)0a

D'Da ce gokame, le 12 EXJ oбразува Mt reag Рамосно състваржите операции, те свбиране на попиноми и ушножение на попиноми и ушножение на RENTERJ= Efe [RIX] | degféng jane N 1) Use gok ce < |R[X], +> e abeneba zpyna

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c peanur kseep. rye monyum nomunou c peanur
kseep. rato in cobsepen.

Elk [X]

Elk [X]

Hera $f = a_0 + a_1 x + a_2 x^2 + ... + a_n x^n u$ $g = b_0 + b_1 x + b_1 x^2 + ... + a_n x^n u$ 9=60+61x+62x2+..+6nxn, a;616181R 30 1=0,-n

NABOR CAPARIO = (+09) & h = = (a + G1 X + ... + an X n + 60 + 61 X + ... + 6n X n) & h = = (a + 61 X + ... + an X n + 60 + 61 X + ... + (an + 6n) X n) & h = = (a + 60 + (a + 61) X + (a 2 + 62) X 2 + ... + (an + 6n) X n) & h

$$\begin{array}{l} (a_0 + b_0 + (a_1 + b_1)x + ... + (a_n + b_n)x^n) \oplus (c_0 + c_1x + ... + c_nx^n) = \\ = (a_0 + b_0 + c_0 + (a_1 + b_1 + c_1)x + ... + (a_n + b_n + c_n)x^n \\ \partial x \mathcal{C} \mathcal{M} \alpha \ c \overline{\rho} \alpha \mathcal{M} \alpha = f \oplus (g \oplus b_1) = \\ = f \oplus (b_0 + c_0 + (b_1 + c_1)x + ... + (b_n + c_n)x^n) = \\ = (a_0 + a_1x + ... + a_nx^n) \oplus (b_0 + c_0 + (b_1 + c_1)x + ... + (b_n + c_n)x^n) \\ = (a_0 + b_0 + c_0 + (a_1 + b_1 + c_1)x + ... + (a_n + b_n + c_n)x^n) \\ = (a_0 + b_0 + c_0 + (a_1 + b_1 + c_1)x + ... + (a_n + b_n + c_n)x^n) \end{array}$$

Пява страна = дяена страна => Д е агоднативна

Here
$$O_{|R|_{XY}}$$
 ognarum enemers of $|R|_{XY}$,

 $|R|_{XY}$ $|$

1.4) Tiporubononum

Hera
$$f \in [R \stackrel{L}{E}N] \implies f = a_0 + a_0 \times x + \dots + a_0 \times x^n$$

There we game $\exists f' \in [R \stackrel{L}{E}N] / f \oplus f' = f' \oplus f = O_{[R \stackrel{L}{E}N]}$
 $f' = b_0 + b_1 \times + \dots + b_0 \times x^n$
 $f \oplus f' = (a_0 + b_0) + (a_1 + b_1) \times + \dots + (a_n + b_n) \times x^n$
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$$\frac{1}{2} \sum_{x=1}^{2} \frac{1}{2} = \frac{1}{2} + 0 \times \frac{1}{2} \times \frac{1}{2} = \frac{1}{2} = \frac{1}{2} = \frac{1}{2} = \frac{1}{2} \times \frac{1}{2} = \frac{1}{2} = \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} = \frac{1}{2} \times \frac{1}{2} \times$$

1,5) Lougranulouour Hera figo RENJ. Werenne ga gor re 409=90f f=ao+a1x+...+anxn;g=bo+b1x+...+bnxn f@g = ao+ bo + (a1+b1) x+...+ (an+bn) xn 90 = 60+a0+(61+a1)x+...+(6n+an)xh 1R e more ao+60=60+a0 01+61=61+01 => < |R,+> e as. 2p. an+bn=bn+an u zream + e kampantero u pear a; +6; =6; +a2

SoTyx gorazovere
$$\geq 1R \stackrel{\text{SM}}{\text{Ex}} = 0$$
 and ≥ 2 Here $f \in 1R \stackrel{\text{SN}}{\text{Ex}} = 0$. Here $f \in 1R \stackrel{\text{SN}}{\text{Ex}} = 0$ Therefore ce game $1 \odot f = f$
 $10(a_0 + a_1 \times + \dots + a_n \times^n) = (1.a_0 + (1.a_1) \times + \dots + (1.a_n) \times^n) = 0$
 $= a_0 + a_1 \times + \dots + a_n \times^n \times 0$
 $= a_0 + a_1 \times + \dots + a_n \times^n \times 0$

3) Here $7 \cdot \mu \in 1R \quad \text{Ex} = 1$

Therefore $1 \cdot \mu \in 1R \quad \text{Ex} = 1$

Therefore $1 \cdot \mu \in 1R \quad \text{Ex} = 1$
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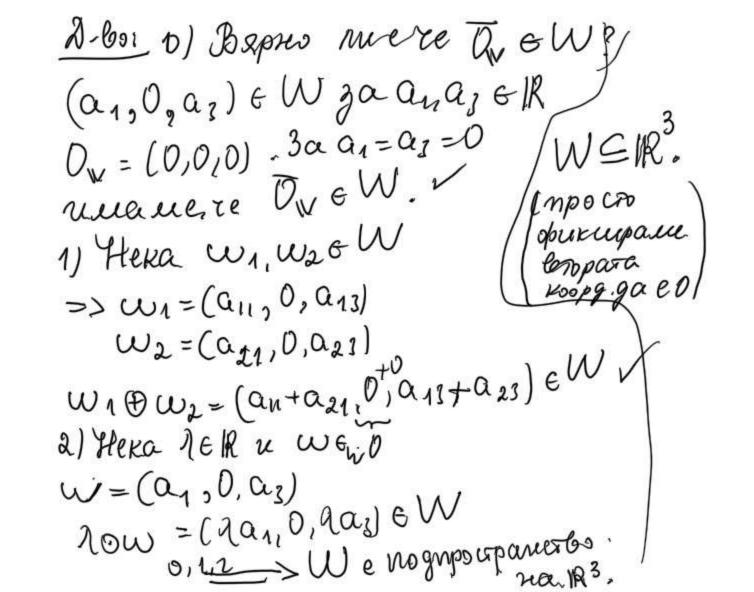
Decne copana = 20 fg 40f 20f = 200+901)x+...+ (20n)xn Mof = Mao + (Mai) X+...+ (Man) xn Дясна странеа = (100+ма, +(101+ма1)×+...+(10n+ман) х = = Noba cipania as v 4) fige RÉXT, 1 ell 20 (f@g)=20f@20g Turane ce game Naba cipana = 20 (ao+60+(a+61)x+...+(an+6n)xh)= = 1(a0+60)+(1(a1+61))x+..+(1(an+64))x2 = 200+160+(191+161)x+...+(201+96W)x." 109=200+161X+...+ Yenxy) & craba conjoro 20f= 1ao+ 9ar+--+ 2an xn

5) Hera YMOR uforExJ Turacce ce gam (1.M) of= 26(Mof) 1860 copania = 1 mao +(9 ma1) x + ... +(1 man) xn MO == Mao+Marx+...+ Manx" 20 (Mof) = 1 Mas + QMaxx + ... + (7 Man) x4 = = Дяснота страна OT CUICKO GOKAZASIO

LIRENJO DO OSPAZYBA NII reag noner 12

Ишнество подпространство Hera < V, O, O> e M mag nonero < F,+,·>. Hera W∈V. Kazbaere, re We nogroscoparcobo Ha V, ako; 0) Ov ∈ W (une re W≠Ø) 7 1)(Yw,w,eW)[W, &w, JeW] 2) (YZEIF) (YWEW) [ZOWEW] nonero F. W = 123

W= {(a1, a2a3) ElR3 | a2=0} e



Heka W=1R+ a ⊕ 6 = a.6 10a=a¹ Da ce gonce Ve MT 2009 IR Линейна завишиой и пезавишию Heka We MI nag nonero IF u neka anaziman GV. Beresoper V= (10 a) p(120a) + ... P(noan) e V ce нарига пинейна комбиначих на векториче Deop. Hera V e Mi na anazon an Razbane, le anazon an ca minerio Hezabunium, aro

Has
$$(\exists \lambda_1, \lambda_2, ..., \lambda_n \in F)(\exists i \in \xi_1, ..., n_j^2)$$

 $[\lambda_i \neq 0 \& \lambda_10 \alpha_1 \oplus \lambda_20 \alpha_2 \oplus ... \oplus \lambda_1n_0 \alpha_n = \overline{O}_w]$
 $[\lambda_i \neq 0 \& \lambda_10 \alpha_1 \oplus \lambda_20 \alpha_2 \oplus ... \oplus \lambda_1n_0 \alpha_n = \overline{O}_w]$
 $[\lambda_i \neq 0 \& \lambda_10 \alpha_1 \oplus \lambda_20 \alpha_2 \oplus ... \oplus \lambda_1n_i \lambda_i](\lambda_1n_1 \neq (\delta_i n_i))$
 $[\lambda_1 \circ \alpha_1 \oplus \lambda_2 \circ \alpha_2 = \overline{O}_w]$
 $[\lambda_1 \circ \alpha_1 \oplus \lambda_2 \circ \alpha_2 = \overline{O}_w]$
 $[\lambda_1(\lambda_1, 0) \oplus \lambda_2(0, 1) = (0, 0) \iff (\lambda_1, 0) \oplus (0, \lambda_2) = (0, 0)$
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16- Hypelanar bensope N3 160, 200, = 0, (mpunepro za 7=1)

Осмовна пена на ЛА A= 2 a1, a2, ..., an3 | B= 861, 62, ..., 6x3 450 81,2,-, Kg 6; = 1100, 10 112002+--- 1100 an u k>n, To Be 113 cucrema et Bekropu.

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Базие, разшерностикоординать Hera A={a1,a2,...,ang-cucreua 6-pu e(A)=5710a1+220a2+...+07n0an/2ielFi=1,...n}

 $\frac{\text{Tipi}}{2} = \frac{\alpha_1 = (1.2)}{2}, \quad \alpha_2 = (5.1)$ 20 a 1 \$ (-10 a = (2,4) \$ (-5)-1)= (-3,3) & lanas)

5 azuci Ul-60 07 MHeteres nezabulle 6-pris 3a kouro $\ell(a_1, a_{21}, a_n) = V$ Tp: $\|2^3 \alpha_1 = (1,0,0), \alpha_2 = (0,1,0), \alpha_3 = loros1)$ 3ayo ca MI $\lambda_1 \alpha_1 + \lambda_2 \alpha_1 + \alpha_3 \alpha_3 = 0_{\mathbb{R}^3}$

l Bunaru ako anam ant vo lanaz, an) e nogue-bo na V u ouje nobeze e nognpocrparecile 20 W. D-60; 0) Ov € l(anazinan) U3Supane (91,..., 2n)=10,..., 0). Torecte 0a1+0a2+...+0an=0v & l(a1,a2,...,an) 1/ Hera VIIV2 & Clana, an) Mist Vi=11 ar+ graz+ -+ Inan V2 = M1 ar+ Mrart -+ Mn an V1+V2 = Q1+M1) Q1+Q2+M2) Q2+ (Inthus) an elas vellan..., am un = (my) ant (ma) arent (my) an ell Разшерності броя жавектория в кой да е базис

Jp/ 122 e 3 diculF"=n