М Линейные операции с векторам на плоскасти и в пр-ве, PI ux cb-ba. Sunerino zabucurrene a nejabucurrene cuem-un векторов. Соводь методу минитой зависимаетью, кам. Дев напр. отр-к, - отр-к с упар. котуани Del XY = X'y', eam AND STATE OF THE S @ |X x |= | x' y' | -130 - V = 2. M. V = 6 2) XX 11 X'Y' (Kammeaponn) 3 XY u X'Y' conannabuennou Det Bermon- krace been nonn. omp-ob, pabrier quine nonn. omp-og. Imb. Dba nam. omp-na XY u X'Y' onnegensnom ogun u D-bo, JET! XYSET XX2X'x'=> XX ux'y' & X'Y' = 2T agnormy ku-ey = > onn. og, u mom nee 8-n. Onepayan nong 6-mi Det Cromenue 6-pob 6 - - 2 / (1.00 - 1.00) Jan - 3 X X = 0 Y = 6 2 = 0+6 det blumge nopomgennin X 2 Note, опр-е суммы в-ров нутдаетах в корректности. T. e. rymno nongame, uno cyrra ne zabucum em budgra XX 4 YZ. Del, Junomenue 6-pa na muro Xell a-6-n. XX=ā, mongre \add XZ: 0 XZ= 1X (XX) 2 XZ 11 XY (3) ADOSD XZTT XX; XCO XZ 4T XY

OàtB=B+à Karunymannubmanne (2) (à+b)+c=a+(b+z) accour. (3) 30: a+0= 0+a=a 9 4ā J-ā! ā+(-à)=0 (5) 1-a = a Ynumannoom6 (6) (y.m). == x.(m.a) (7) (x+ m) · ā= x · a+ m·a (3) 入(直+6)=入直+26 Det & Li Vi - uneimar kand. Dels AK-mpubuaumae (=> 2;=0 4; Del, AK-ne mpub C=> 3 2= +0 Def Gra 6-pob (Vi -. Vn) - 13, eam Frempub NK Vi -- Vn =0 Dels C-ra 6-rab (v...v.) NH3 (=> (v...v.) ne 13 ymb, (Knumenui N. zab.) a)=> 2,v,+..+dnvn=0

C-ra 6-pob (V,... Va) 13 2=> 3 vi, nomonini boun-ce repres

Typomb dn #0 (6.0.0.) => dn Vn =-2, V, -.. - 2n-, Vh-1

から Sycoms vn= Biv, -- Bn-, vn-, =>

(v,...vn) -13=> y noguemere 13. (v.-vn)-143=> V nogenemana 143.

mb Eau (Vi...Vn) - NH3, mo bassuis b-n passuagubassus Supernto $\bar{u} = (\bar{v}_1 \dots \bar{v}_n) \begin{pmatrix} d_1 \\ \vdots \\ d_n \end{pmatrix} = (\bar{v}_1 \dots \bar{v}_n) \begin{pmatrix} B_1 \\ \vdots \\ B_n \end{pmatrix}$ => (v. - vn) (2-Bi) = 0 m. K. (v... vn)-ハH3コン ユー戸=ロコンス=戸町 a) Ryamo à \$ 3. Torga 6, nam. à, bornamaemes repres à 6= > · a , > e/R d) Ryeme ā, ār-nekam. Torga b, kommanaprim ā, u ēr borpamaemer repez à, u ar 6) Ryems (ā, ār āz) - nenaum. Torga Y B & V (mp-by) nommo bupajume reprej (a, ar as) D-80, e) - + + + x2=6 1)12 XZ 200, x už no ogny cm-ny om X 2 20, unare XZ = XXX 尼二人a B= X2,+X22= /2,+/2 =2 (narryyeman a) 1 orebugno. B 10 (0)-13 (2) C-re, cog gla nam. 6-pa-13. 3 Cra cog mpu karn 6-22-13

(9) 4c-12, egg 48-pe-13.

- 1) 1.0 = 02) Earn eems $\overline{0} = 5$ ores. Sujems $\overline{V}_1 \neq \overline{0} = 5$ $\overline{V}_1 = 2$ $\overline{V}_2 = 5$ $\overline{V}_1 - 2$ $\overline{V}_2 = \overline{0}$ $\overline{V}_2 \neq \overline{0}$
- 3) (v, v, v, v)-kann.

 Eam Fi, j! (vi, v) | kan = >(vi, v; 1-1/3 = (v, v, v, 1-1/3 unare 1/3 no rpeg. ymb.

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4) orebugno.

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