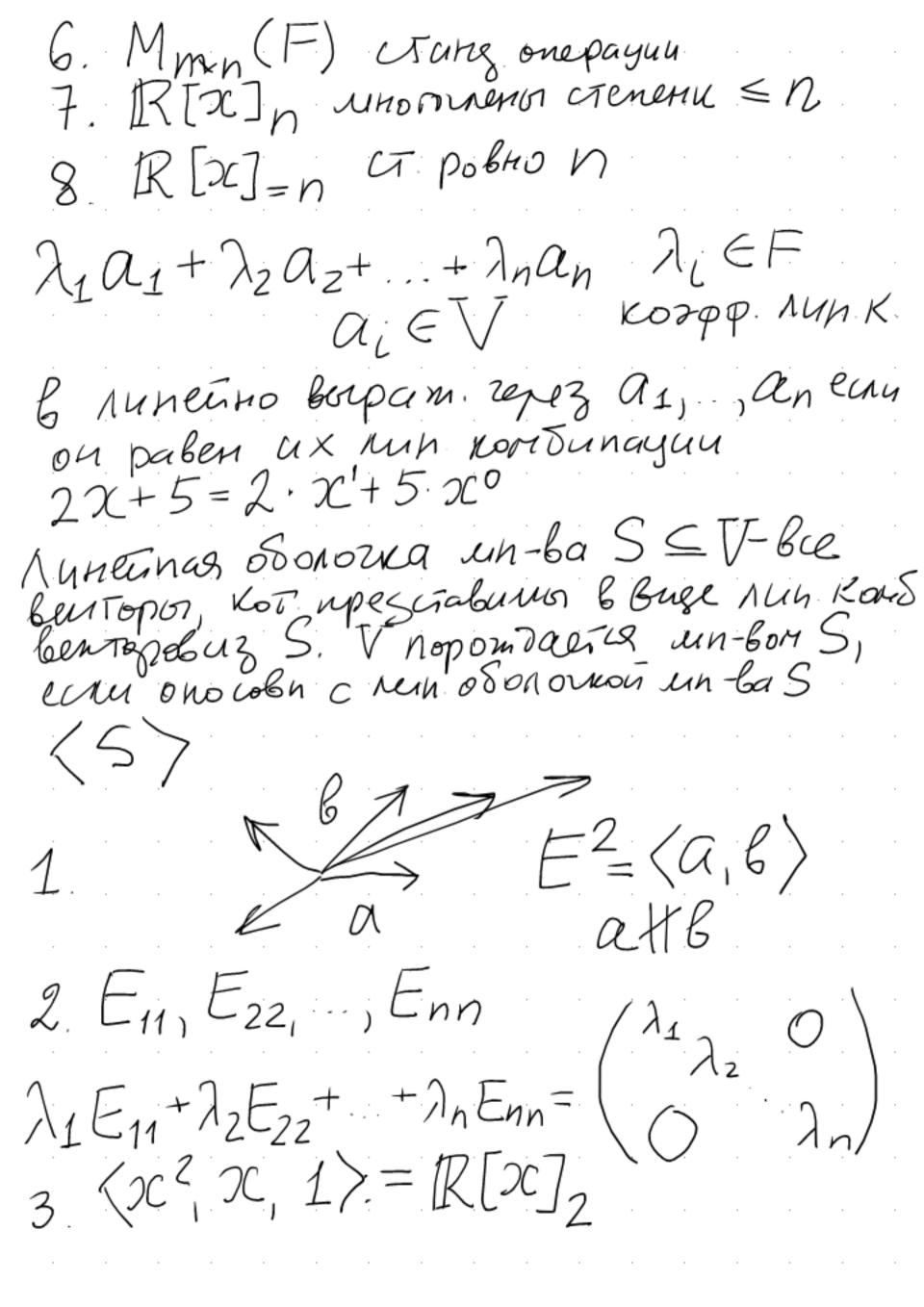
1/XII 2023 Bentophore apocipations Benjophoe (Mherinoe) np-60 Mas novem F \_ мп-во V (венторов) с операц спотения и y your ma on-to none F (cranapor) co cres В-вани: 1. По спотению-себенева группа. 2 2(a+6)=1a+26 7, EF, 9, BEV 3 (2+11) a = 2a+110 2, MEF, aEV 4 (2ma= 2(ma) F=R beey mp-bo 5 1a=a F = C KOMILIN MP-60 a-6:= a+(-6) - BONGTAHUR  $\lambda(a-6) = \lambda a - \lambda B$ Cresubus: 20=0  $0 \cdot a = 0 \cdot (-1)a = -a$ Jupunepor: 1. 109 2 Feorib-pos na uprmon/nian/up-bee 3. Koopganaind (apupu) np-60: NP-60 CRONSYOB BESCOTES N C ENEURUTAMY Fn (Rn Cn), onepayun ecrecib.  $L_1$  Func (X,F): (f+g)(x)=f(x)+g(x)5. C-bent np-60 Has R



Mun Koms \( \frac{1}{\interpublicanomas, eury Bue 21 = 0, Kupubuanomas - 6 npotubnia B-ρω  $Ω_1, Ω_2, Q_K \in V$  ημεσιδ <u>πιμεσιώ</u> <u>3 αβωμποτε</u> — είνα αγιές  $u \times n$  επραβαανώ πας λαη κομδανας, ραδηάς μίγιω. Λαη μεγαβαμμποτε :  $λ_1 α_1 + ... + λ_n α_n = 0 = 1$ Be 1=0. 202 5x, 10x+8x2  $-8 \cdot x^2 - 2 \cdot 5x + 1 \cdot (10x + 8x^2) = 0$  $\chi^{2} \propto 1 \quad \chi_{1}^{2} \propto^{2} + \chi_{2}^{2} \propto + \chi^{2} 1 = 0 = 0 \times 2 + 0 \times 401$   $= \mathbb{R}[x]_{3}$ Baneranne autena Centopolo 1 Benjoph zangulpobanos 2 Cresu neix mozyt But odunambore The energy  $e_1 = \overline{L}$   $e_2 = \overline{L}$   $e_3 = \overline{K}$   $e_3 = \overline{K}$   $e_3 = \overline{K}$   $e_4 = \overline{L}$   $e_5 = \overline{L}$ PI=T EZ=T P3=K

nyuras cuurema { }. zabucu nource topunepos run 2 Cuct uz 864x beningrob anb run Zabucula => aub npongryyonansur  $\lambda_1 a + \lambda_2 b = 0 \mid : \lambda_1 \quad \alpha = \left(-\frac{\lambda_2}{\lambda_1}\right) b$   $\alpha = 0$ 3 Cua us piex reon bentopolo (=> 6 HU KOURNanapribl Cloba nun (ne) zabucunos curem; 1. CUCTEMA BENTOPOL MIN 3abric (=) XOTS DO OSUN UZ ZIZIX BENTOPOL SIGN MIN KONTO OCTCANOMIX 2 ECM CUCT CENTOPOL COSEPMET MUM 3 aberle noscertieny, TO U GCA CUCTEMOE 1 UM 3 aberlesma 3 Eury moterna 6-pol min nezalema min nezale

Dazne benjopolo P1, e2, 1 € V-- Sazuc V, ean Kamskin bpuzV Konsanagun 6-pol C1, la Vax= x1e1+x2e2+ + xne xiEF

Koopdunaion bpa x 6 sagna e  $[x]_e = \begin{pmatrix} x_1 \\ x_2 \end{pmatrix} = (x_1, x_2, ..., x_n)^T$ Kerrynebou B-p - 8azric E1 Typunepor: 1. Kenonnun- Fazur Ez 2 1 mostre sta 3 100 The Tru newommn- Eague Ez 4, F:  $\begin{pmatrix} 1 \\ 0 \\ 0 \end{pmatrix}$ ,  $\begin{pmatrix} 0 \\ 1 \\ 0 \end{pmatrix}$ ,  $\begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix}$ ,  $\begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix}$ 5 C: Q.1+b.L {1, L9-8azmc C R R R 6. Mm×n (F): Map edunuyor Eij

 $7 \mathbb{K}[[c]_n$ Crang Eague workout  $\chi^n, \chi^{n-1}, \chi, 1$   $(\chi-\alpha)^n, (\chi-\alpha)^{n-1}, (\chi-\alpha), 1$  $6, M_{2\times 3}(\mathbb{R})$   $\begin{pmatrix} 1 & 3 & 5 \\ 7 & 8 & 2 \end{pmatrix}$  $E_{11} = \begin{pmatrix} 1 & 0 & 0 \\ 0 & 0 & 0 \end{pmatrix} \quad E_{12} = \begin{pmatrix} 0 & 1 & 0 \\ 0 & 0 & 0 \end{pmatrix}$  $E_{23} = \begin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 1 \end{pmatrix} \begin{pmatrix} 1 & 3 & 5 \\ 7 & 8 & 2 \end{pmatrix} = 1 \cdot E_{11} + 3 E_{12} + 3 E_{13} + 3 E_{14} + 3 E_{15} +$  $+ +2E_{23}$ Alma Hasop Li, lz, len reportanción rp-60 V, son Sagucon > OH Mun. Dox-bo:  $\lambda_1 e_1 + \dots + \lambda_n e_n = 0$  u ne be  $\lambda_1 = 0$   $\chi = \chi_1 e_1 + \dots + \chi_n e$   $\chi = (\chi_1 + \lambda_1) e_1 + \dots + (\chi_n + \lambda_n) e_n \quad (\chi_1 + \chi_1)$   $\chi = (\chi_1 + \chi_1) e_1 + \dots + (\chi_n + \chi_n) e_n \quad (\chi_1 + \chi_1)$ IL+O 2 paznox meseralor. Zj  $\mathcal{X} = \mathcal{X}_{L}e_{1} + \dots + \mathcal{X}_{n}e_{n} = \mathcal{X}_{1}e_{1} + \dots + \mathcal{X}_{n}e_{n} = \mathcal{X}_{n}e_{n} + \mathcal{X}_{n}e_{n} = \mathcal{X}_{n}e_{n} + \mathcal{X}_{n}e_{n} = \mathcal{X}_{n}e_{n} + \mathcal{X}_{n}e_{n} + \mathcal{X}_{n}e_{n} = \mathcal{X}_{n}e_{n} + \mathcal{X}_{n}e_{n} + \mathcal{X}_{n}e_{n} = \mathcal{X}_{n}e_{n} + \mathcal{X}_{n}e_{n}$  $(x_1-\widehat{x}_1)e_1+...+(x_n-\widehat{x}_n)e_n=0$   $x_j-\widehat{x}_j\neq 0$ Leepul ren Komsunagns =) ren 3 abec.

Inbelan oup. Eazuca: Makcumanshas (no busio reneiro) sun nezabul cutema, noponyarousel bie up-bo V Bo beex Eazmax ogunamobol Kon-bo Benjord - pazneprocto np-ba V dim V = n, Typunepoz: 1 din 209=0 3 din Mm×n(F)= 2 dim R[x]n=n+1 = m·n  $x^n, x^{n-1}, \dots, x^{n-1}, x^n = 1$ din V < 00 Konernoneprore np-ba dim V= 00 Secrohormonephre npba Typunes dim V= 00 CTEMENTORE PESOR Eague 1, x, x<sup>2</sup>, , x<sup>R</sup>, c ecteub onepayusmu Tragnocorpanciso U < V (U = V) -- nosein-60 ein-6a V, zamknytoe othoc onepague & V U cario son np-bors abeu a+beu raeu

Typunepa nosmp-6:  $1 E_1 \leq E_2 \leq E_3$  $2 \mathbb{K}[x]_{n-1} \leq \mathbb{K}[x]_n$ 3 Kenp p-your f X->1R mosup-bo B Func (X, R) 4 1 Un 68 DOURA 1608000 ein-ba SEV Иво монотоннием размерности. dim V < 00 U < V dim U ≤ dim V 5, 2095 V, V < V Гоморризива вент пр-в  $\varphi: V_1 \rightarrow V_2 \quad \varphi(\lambda a + \mu b) =$  $=\lambda \varphi(a) + \mathcal{U} \varphi(b)$ 

Uzorropouzu – Euentubrne romonoppuzu

Ble np-la ognoù pazuepholm (ne eznum nonem) uzorropohon

dim  $V=N \Rightarrow V \simeq F^{n}$ (Has F) cronogo Koopdunas

beniopoli