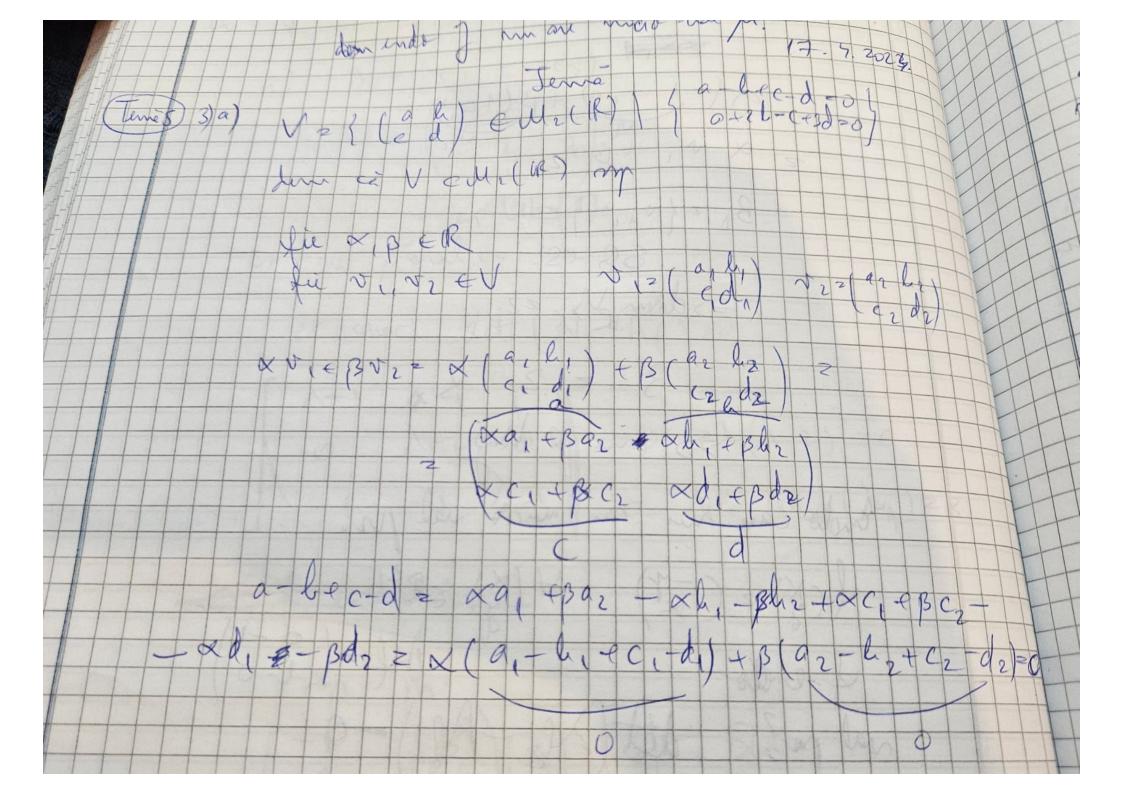
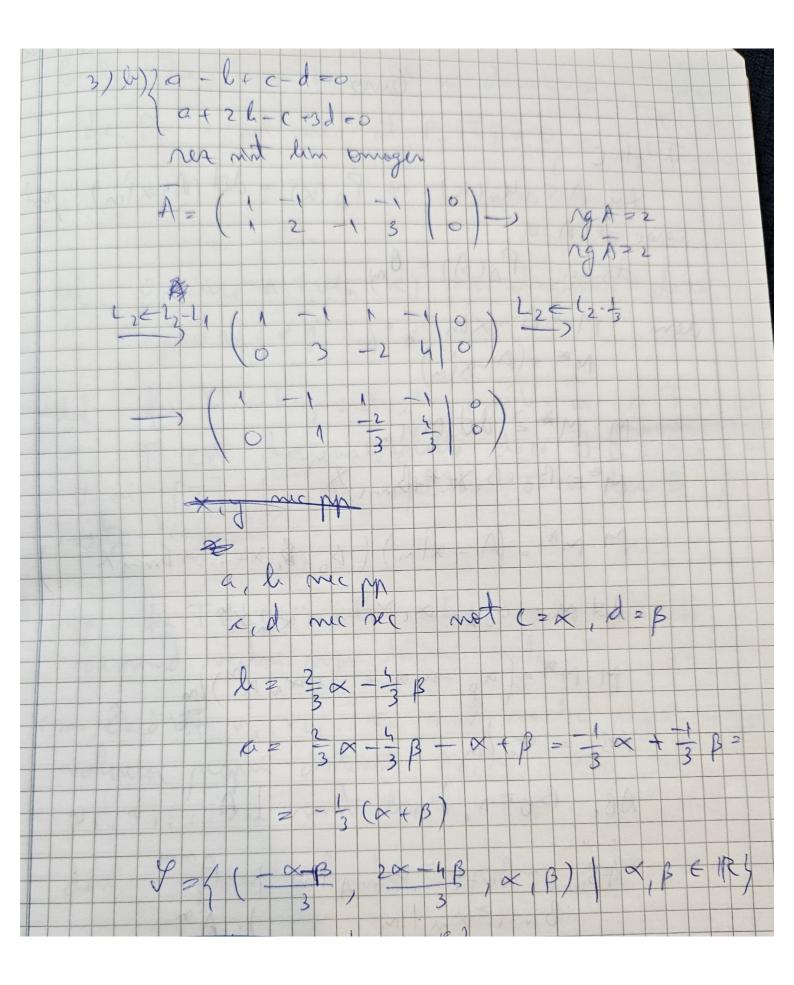
4.2024 10 Lema 35 3x+2y-3 dem an Um. N, 2 0/3 =XXXXX 2 -22,-22 2x, +2x2 +2/1+7 2 3x,+3x2 - 41 +31 2X 27, 2 + 7₂ 2 3 X2

Li ve (x, y, 2) en Live R X(xx) = x(xx,xy,x2) = = (xx+xy-xxx, 2xx +xy+xx, 3xx+xxy-xx)= > & e apl lim 2) V,= { (x,y,0) | x,y eR} den ca V1, V2: m ved Xi XBER Xu 1, 12 EMV1 V1 = (X1, Y1, 10) XN+BV2 2 X (X, y, 0) + B (X2, y, 0) 2 = (xx+ Bx2) *(xy, cxy) * 0) € 1/1 2 (X, y, 0) + (XE, M2, 10) 2 -) Vi e my with Ly & BEIR Li 0,026 V2 N, = (X, 0, X,) V2 = (X20, X2) =(XX,+BX2,0,X,+BX2,0,X,+BX2) n V2 e un wet



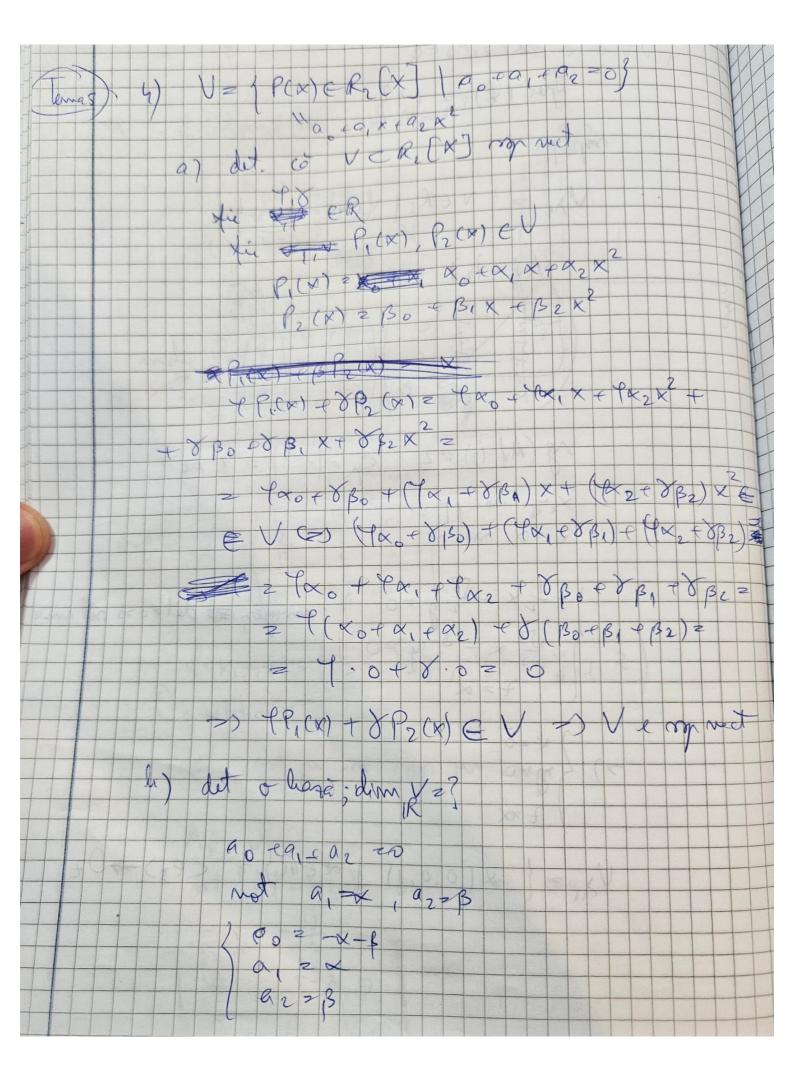


a +21 - C+3d = x 0,+ Baz + 2x 6, + 2 Bb2 - x e, -x e2+ +3×0,+3802 = × (a,+20,-0,+30,)+0(a2+202-02+302) >> XV (PV2 C V 21 V 2 mg wed J= ((= 3 x - = 3 B, 2 x - = 3 B, x B) x B CR3 = - (- \frac{1}{3}\times, \frac{3}{3}\times, \alpha, \alpha, \infty = (- \frac{1}{3}\beta, - \frac{1}{3}\beta, \infty, \infty, \infty = (- \frac{1}{3}\beta, - \frac{1}{3}\beta, \infty, \infty, \infty = (- \frac{1}{3}\beta, - \frac{1}{3}\beta, \infty, \infty, \infty, \infty = (- \frac{1}{3}\beta, - \frac{1}{3}\beta, \infty, \infty, \infty, \infty = (- \frac{1}{3}\beta, - \frac{1}{3}\beta, \infty, \infty, \infty, \infty = (- \frac{1}{3}\beta, - \frac{1}{3}\beta, \infty, = { \(\left(-\frac{1}{3}, \frac{2}{3}, \left(0) + \beta(-\frac{1}{3}, -\frac{4}{3}, \left(0, 1) \) \(\alpha, \beta \in \mathbb{R} \) -) \$ B = \ v, v; \ here =) dim x = 2 det completati base o pano la o haso un qu ambiend Uz (R) Bo = { (00), (01), (00), (00) leave can a line

Mr(R) => dl2 (R) ≥ R 4

egez ez ez

B > 6 V 1 V 2 1 X 1, X 2 3 hana de completet N, = (-3, -5, 0, e) alog -3 a a 2 1 -4 1 h 2 1 se completes m e3= (00) Nes (00 Let B= Cy B= 1 10



-0-B, x, 13) | x, BERJ-(-x, x, 0)+(-B, 0, B) |x, 3CR}= { x(-1,10) + p(-1,0,1) | 2,3 ems B= 1 v, v23 base = > dim R = 2 completati lere B pand le co lere in yout authental B2 (X) Bo = { (1,0,0), (0,1,0), (0,0,1)} leave can al B= { v, vz, e} here de completat N(=(-1,10) N2 2 (-1,0,1) alg 2 200 1 2 EBO det B = 1 -1 0 0 2 e) B= { (-1,1,0), (-1,0,1), (0,0,1)} V2 = 3 (M, O, W) M, W EM)) den ce V, eV2=1R dem 2=7. e valatel grat V, @ V2 = 183

a) hix, sell fre v,=(0, d,), v, =(4e,0,0, EV XV, + poz = (xA,0, xh,) + (Baz, 0, Bbz) = -) V, CR3 my real V = { M(1,0,0) + v(0,0,1) | m, v e(R3 =) -> B= { [1,0,0] (0,0,1) =) dim N2 22 4) V recR3 31 Zel, zeh an * = (a, h, c) 12 - - > 7 = (xex, g, v) = 6R² li fer3, f=(a,l,c) li f, =(x,y,o) eV, fr=(M,o,v) &Vz f = 4, ef2(=> 4 a = x + h

y = h

h = e 2) & E { (X+M, y, v) [x, M, y, v e R } 2)

X e R3 -> V, eV, = R3 C) DU VI - R3 -> U1 + U2 - R3 A V1 N2 - 10 R1 V, N/2 = { ~ (1,0,0) | a e R 3 + (10,0,0)} -) V, ⊕ V2 + 1R3 a) Lu Vie A CUM(R) 1 ThA = 03 Uz={A Edun(OR) | A=xim , x EOR} a) den & V, FVz mm ned b) den & V, EVz = Um(IR) a) went the dim in acest car Le ALEVI, ALEV2 x. elin lu XA+BAZ= aaz +BX X. elen. lu A E Mar (R) >1 fix, per fix A, B, EV, ant. thm 20 XAFBB = | xan + Bl 11

Stir 20 m Sairelini 20 m m XABBEV, - S V, CUM (IR) my med fü K,BER fü A,BEV2 A= Xim, B= Pim XA+BB= NP = (x+4) (m eV2 0 146/ =) V2 CUn(lk) my met Ly V, €V2 = \$ Un(12) (=) V, € U2 = Un(12) ~ V, MV2 = 10 Lie X EMn(R) Li AEV, BEV, X-AB 10 X 2 (* X2 X3 XZA(BCZ) \$ SXiZ A DA DA N.M. orice matrice de ord a repeate verie co nima some o matrice un Tr =0 à o matrice ocaler re calarberé media ontemetico a elem de diag pringipale a motaicii; a ceda este scalamba

nothers realerely din motico organico rain scaderes matricei ocaler din matrices orizinali obtinen o matrice au Trop => V1 + V2 = Wm(18) @ Sam-on aciety => V, AV2 = => V, OV, = U.(R) dimensioni & Grassman; olim (Viele) = dim Vi + dim Vz - dim (Vi NVz V, NV, 2 (On) = dm (V, NV2) 20 dimensiones edate de m. elementelos telos tara restrictios V2 = 17 im (x er) -> dem (V2) =1 N, = 4 A (TrA=0) => dim (V1) = m2-1 V + U2 = Mm (1R) => dum (U1 + U2) = m2 m2=m2-(+1-0 =) Adenonat revino or ventro