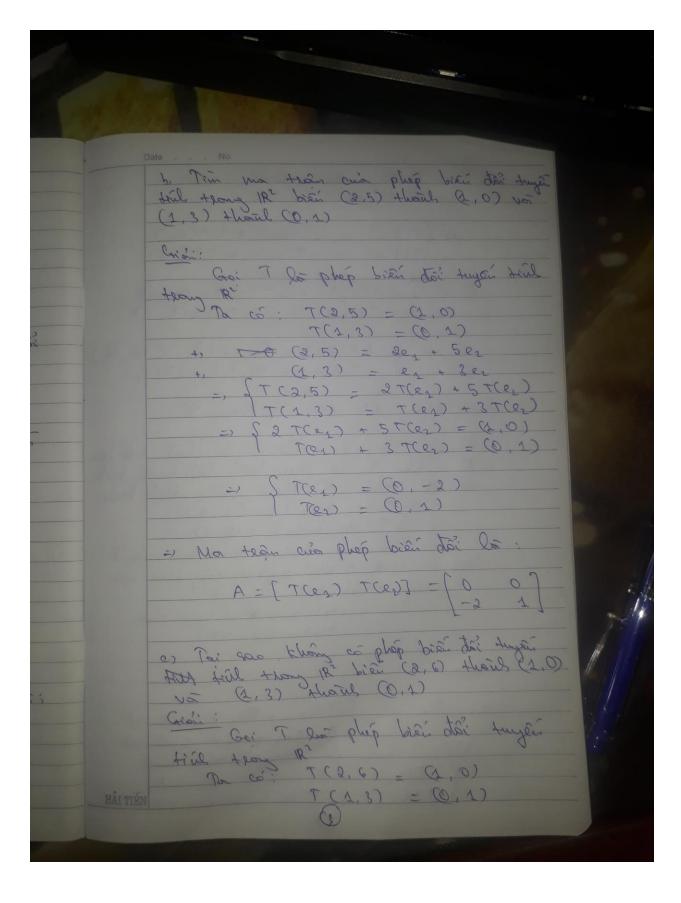
B12: PHER BIEN DOI TUYEN TIME B1: Cho histy Viny san 5 = (x, x2) +> T(0) - (2x, +3x2, 3x, elas) a, CMR: The wist plup bien dei tugen til 6. Pin ma taken divid the cus T. Criois: Xet Two = [2x1 + 3x2] = A. v (Yve IR2) Lay banky: of 21 1 why 2 e 122 To co: + T(0+w) = A(0+w) = AU + AW (1) 1, T(co) = A(co) - c T(v) (ceR) No (1) vo (2) suy la T la brea by Pace: TW = A.V COCK

 $V\acute{s}: A = \begin{bmatrix} 2 & 3 \\ 3 & 2 \end{bmatrix}, V = \begin{bmatrix} 9 \\ 2 \\ 2 \end{bmatrix}$ => Ma than chiel toi cue T la: A = [2 3] B2: on Tim wa trân cuốn phép bien dois tuya trub trong R' bien (1,0) thank (2,5) vo (0,0) thank (1,3) Gioù! Coi T là phip bien dei truje. To co: T(1,0) = (2,5) T(0,1) = (1,3) +2 (1,0) = 21 D (0,1) = 82 (T(1,0) = T(e) 17(0,1) = T(ez) = (2,5) 1 TCe27 = (4, 5) => Ma trâm ais phép bili de la: A = [T(ex) T(ex)] = [2 1



1, Q, G) = Deg + Gez 4, (1.3) = 2, + 322 => \(\frac{1}{2,6}\) = 2\(\frac{1}{2}\) + 6\(\frac{1}{2}\)
\(\frac{1}{1,3}\) = \(\frac{1}{2}\) + 3\(\frac{1}{2}\) $= \begin{cases} 2 T(e_1) + 6 T(e_2) = (1,0) \\ T(e_1) + 3 T(e_2) = (0,1) \end{cases}$ $= \begin{cases} 0.7(2) - (1, -2) & (16 lg) \\ 7(21) - (0, 1) - 37(22) \end{cases}$ > Khang ton dai T thong IR2 Cho de, ez 3 là co so chirt tac ais . Cho T là phip bien de tuyen tril to 12 vois 12 those man dien too T(22, + 22) = (0,1) as Tim ma than chief too air T Gran: b. CMR T Khai nghich ha tim mon c. Pin vocto u e 12° sao cho T(w) = (2, -2) Criai: The co: of T(ex + Pez) = (1,1) Vi T bien doi truger til ver! S T(21) + T(22) = (1, 1) 2T(2x) + T(2) = (0,1)

an of T(ex) = (-1,0) T(ex) = (2,1) Top => Ma tean chill toi la: A = [TOD) TOD] To co: det A = -1 (#0) Khoi ughich Ma than Eline Ta vo: T(w) = (2, -2) A. u = [2] (5)

84, Cho & ex, ez, ez 1 là ex sã chine tou ain 123 var The phep been doi truje tiels tie 123 var 123, TMDK! (T(es + ex + es) = (3, 3,3) $T(e_1 + 3e_2) = (4, 1, 4)$ $T(e_3) = (1, 2, 0)$ a. Tim ma tean divil tak via T by Visi v = (1. 2, 3), rai drul T(0) C. T có kho ughial thong? Now có hay tim ma team abil fat our T Criai: a. Ta ed: [T(ex + ex + ex) = (3, 3,3) T(ex + 2e2) = (4, 1,4) T(e,) = (1,2,0) T bien dei tenger til ver: TOD + TOD + TO3) = (3, 3, 3) T(e1) + 2 T(e2) = (4, 1, 4) T(RZ) - (1, 2,0) T(21) = (0, 1, 2) 7 (e2) = (2, 1, 0) (2, 0, 1) T(2) = (1, 2,0) - Non Asan alvily tai la: A=[T(R) T(R) T(R)] e) A = 1 2 1 0

v = (1,2,3). Ta Vá. TCOT TW 5 T () = train chief that wis 3 (= 0) ughich chill to Q=: A-1 Cho phip biến đối tuyển tính: a. Pim ma team chinh to cura T Cho phep bien doi tuyen tinh

Cho phep bien doi tuyen tinh

v = (21 122) +> T(v) = (2-22,21-22 Tim us tean chial toi via SoT na sim (30 L) (2010) ng, 0 = (7: 5) (A)

Carai: Ket TON = chân trân chial tor oua T b, Xet : 15 Tan = = Av => Ma tylen chiril tot via SoT los: (3)

12 Véc v = (1, 2). Ta vé: (307)(v) = Av => (S.T) (v) = 3