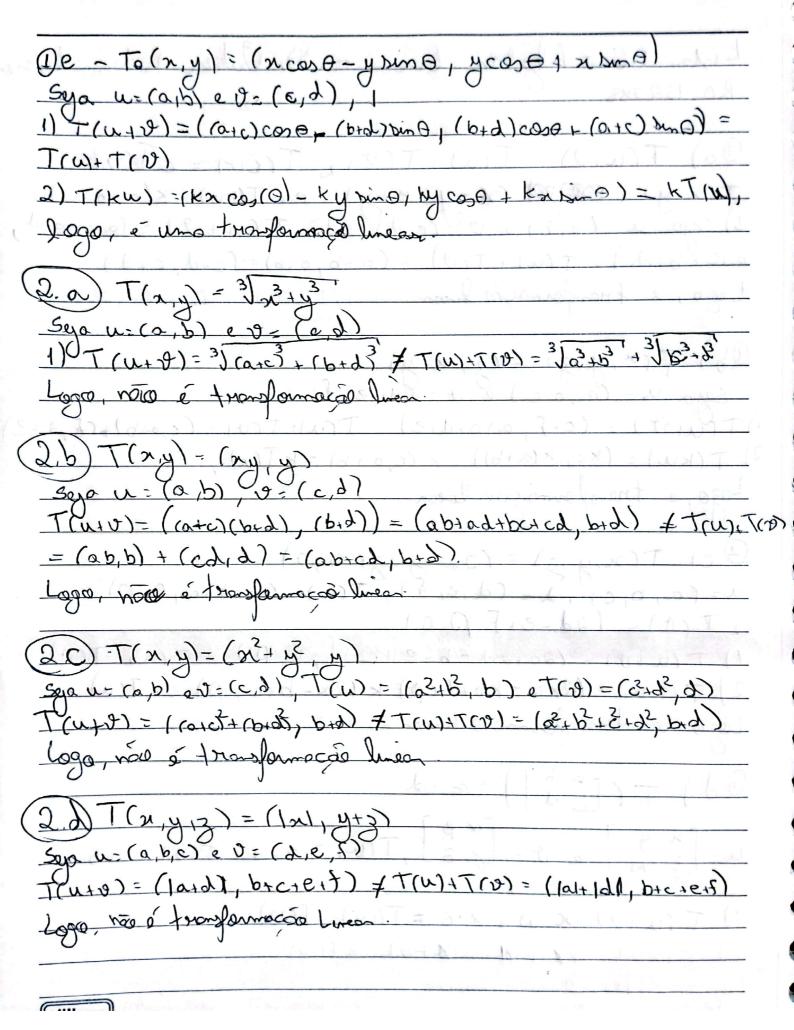
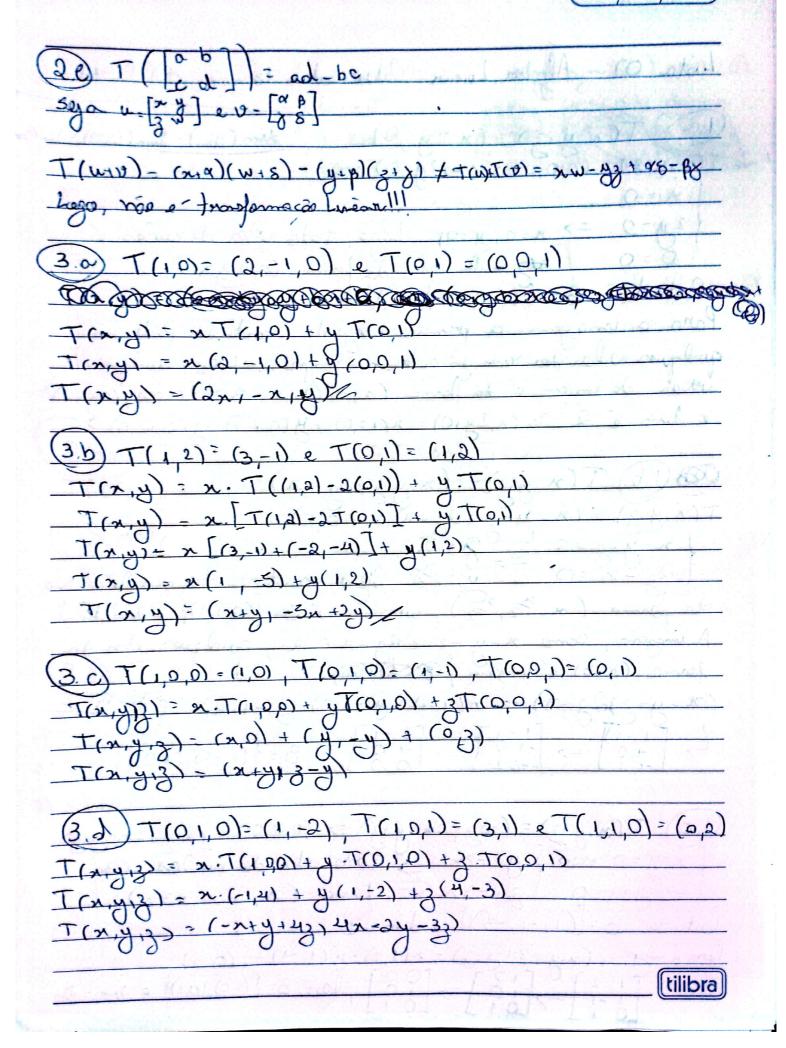
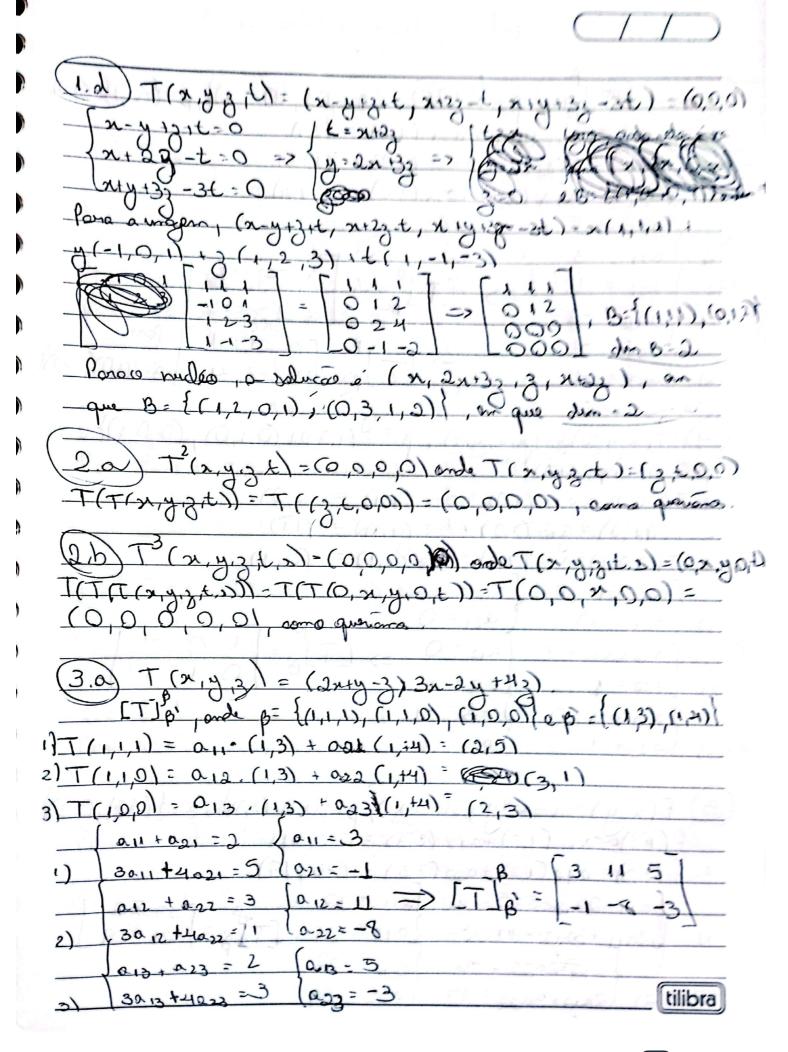
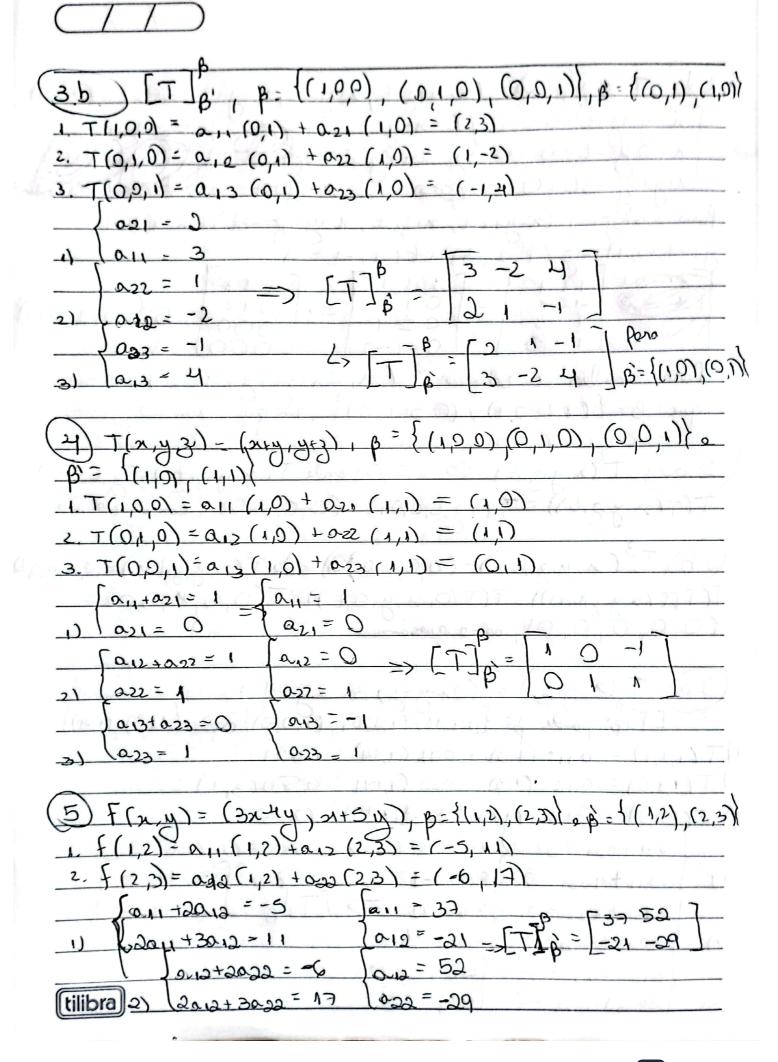
Lista 06 - Algebra Linear - Be Putrer Moderno Lorenzo (a) T(u+v) = T(u) + T(v) & T(cv) = cT(v) 1) Seyo u= (0,b) e 12 (c,d), entoù T(u+19) = (a+c-b-d, aic+b+d): T(w)+T(v)=(a-b,a+b)+(c-d,c+d). Logo, é fransformação livos. (0b) T(x,y,z) = (3,214) Sepo u= (0,b,c) e v= (d,e,f) DT(42) = (c,f, a+b+d+e) 2) T(ku) = (kc, k(a+b)) = k(c, a+b) = kT(u), Lago, e transformaçõe luca. Qc) T(x,y,z) = (2x-y,z) 0,0 u=(0,b,c), 2=(d,e,f), T(u) e T(0)= (2d-e+F po) T(u+12) = (20+20) - 6-e+c+f, 0, 0) = T(u) +T(0) 2) T(KW) = (2Ka-Kb+Kcp) + (2a-b+c,90) = xT(u) Logo, e Transformação Livear. d) T([ab])= 0+d) T (ku) = kx+kx = k(x+w) = kT(w) Laga, é transformação Livear tilibra





Lista 07 - Algobra Linear - Viter Modern Lovercore, RA 130788. dim (Dom) = dim (N(L)) + dim (200 = (0'0'0) = (515710) = 2. 2 (x,2410) = x(10,0) + 4(0,2,0) +3(0,0,0) (x-4-3/22-x 1-1 = B = {(1,-1),(1,0)} (wid 1 5x 9+3) = x(1,5)+ A (1,-1) +3 (0,1) Jap , B= {(1,0), (0,1)} e dim = 2





$f(x) = out(A - \lambda I_n), \lambda \neq 0$
Lista 08 - Algota Linea - Vitar malin Lance, Re. 13078.
(1.0) T(x,y) = (y,x) em β= β= (1,0,0.1)
[T]p=[10], logo, polo polimeno constantes
P(x)=0= bd ([0]-2[0]) => [-2-1]-2-1=0=> x==1
Poro 1=1 => {T(x,y)=(x,y) -> (y=x) => or stores to force (x=y) (x,x) or x(1,1)
Poro x=-1=> T(x,y)=-1(x,y) [y=-x = onetax do force
Perso Jama, $\chi=1$ é autorda e (1,1) é autorda do Jama Poro $\chi=-1$ => $T(x,y)=-1(x,y)$ $=\frac{1}{2}$
(1b) T(x,y) = (xy, x-y) em p=p= {(1,0), (0,1)}
[T] p= [1-1], logo:
0= ([::]-x[6:]]=> 1-2:=0=> x= #2
Para 2= Ja, T(x,y)=D(x,y) (bx = x+y) (05 verse do forme) (by = x-y) x(1, \(\frac{12}{2}-1\)
Ou reja, 2 = 52 é automolor o (1, 52-1) é automotor.
Para 1: -UR, 1/2, y) -UR, -Xig - Steeds de James - Xig - XI, -B-1)
Ou jega, 2 12 é autondon e (1,-12-1) é autondon.
tilibra

(x,y) = (-3x+24) -x+24) em p= {(1,0),(0,1)} logo, polo polinômio coractenstico => [-3-7,4]=0=> 1/2-2=0=> (1,0,0), (0,1,0) em p= {(1,0), (0,1,0), (0,0,1) 0 on 3(0,0,1) satisfaz, logo, tilibra