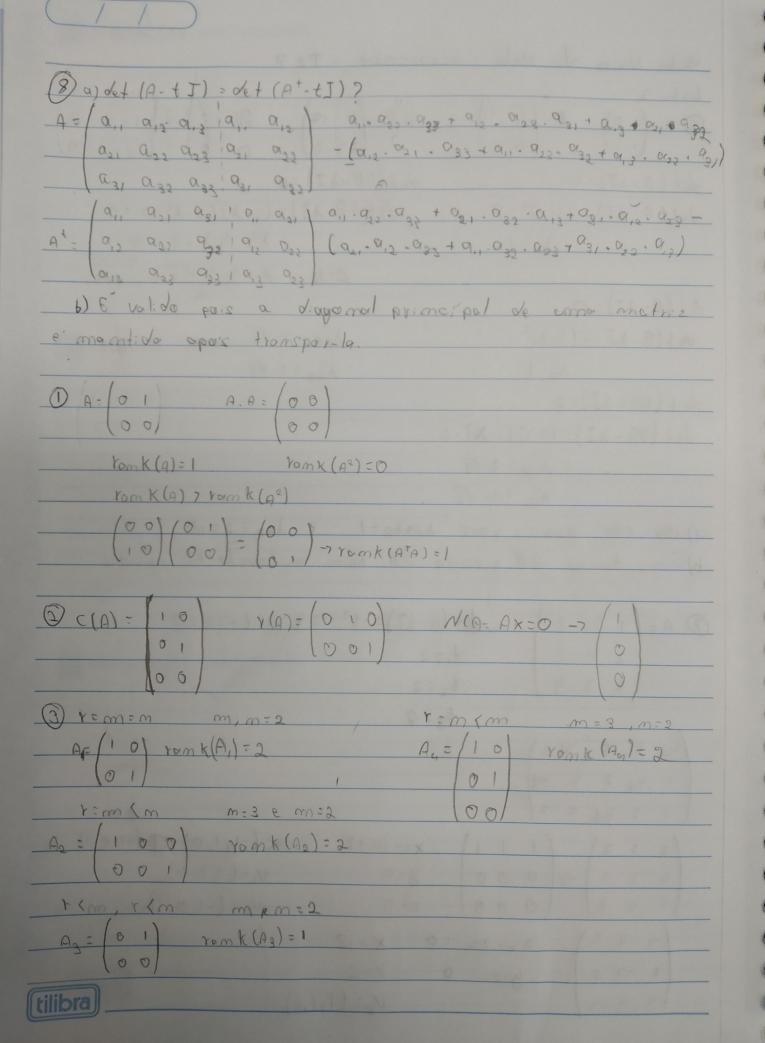
Victor Vieira de Mela - 2019055028 - 727
Lista 2
Ve+ (A-1])=0 de+ (AG-1)=0
-def(A- XI) = (1-x)2=0 def(AD-XI)=(1-x)(3-A)-2=0
= 12-41+1=0
$A = 12$ $\lambda = 9 \pm \sqrt{12}$ $2 - \sqrt{2}$
det (0- XI) = 0
$- \det(\theta - \lambda I) = (1 - \lambda)^2 \qquad \lambda_{A\theta} = 2 - V3$
λ ₀ : λ _{AB} = 2 + √9
- det (BA-XI)=0
_ det (BA - λI) = (3-λ) (1-λ)-2
$= \lambda = 2 - \sqrt{3}$
$\lambda_{\theta\theta}^{\prime\prime} = 2 + \sqrt{3}$
a) Não são iguais, pais haisbel e has = 2 I vo
b) Sim, tanta AB, quanta BA têm autovoloves iguais
(A-t])=-t3+12 t-36+32=0
2 4 2 t, 2 2
1229/ 62=2
tg=8
/9-t 2 2 / 7-t 2) At 1
2 9+ 2 2 9+
[224-622]
222 (111) $x=-(x+\beta)$ $x=-(x+\beta)$
2 2 2 -7 0 00 y= a V,= (-1,1,0)
$(2 2 2 0 0 0) = E = B$ $V_2 = (-1, 0, 1)$
4 2 2 2 2 2 2 2 2 2 2 2 1
2 -9 2 y-2= 0 y=2
$V_8 = (1,1,1)$ (tillbra)

-



5 w+w	= I -7	/1	0	00		w	-1=w+->/1111/
		10	,	00			(1 ~/ ~/
		0	0	10			1 -1 00
		10	0	01			001-1
b) w =	1 1	-1	0	00	1	0	
	1 1	-1	6	0 0	1	0	
	11	0	1	0 6	-1	6	
	1 1	0	-1	0 0	-1	0	
	1 -1	0	0	1 0	0	1	
	1 -1	0	0	-1 0	0	1	
	1 -1	0	0	0 1	0	-1	
	1 1	0	0	0 -1	0	-1	