1) a) BF BF = FA + AB => BF = -7 + B -1 + 4 + 4 + 4 + 4 + 5 + 4 + 4 + 4 + 4 + 4	1) 2AD - FG - PH + GH = -B -b of 4c + c-b = -HB
Ы ĀĠ ĀĠ = ĀF + FĠ → ĀĠ = ₹ + ♂ □ FĠ = ĀČ = C	
c) AE = -b La oposta, pela simetaria, de CF	
a) BG = BA + AG = BG = -B+ 1+ c	
e) HB HB = HA + AB => FIB = -C + B opente de FC + 4 B	141-103-504
	With the same
a) AD + HG = - B - C - B + L - C, operto oporto à CB à FG1	1 60 -
h) HF + AG - EF = 2b + I + 2 b + 4 I + 2 I - b = AD	
AE	

FORON

2)	
2) 72	
DE DE + EF => DF = 3 - 2	La Fill Commence
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
6) 53	
DA = DE + EF + FA = DA =	
-u d 4-v	1.334 P
	4,4
c) DB = DC + CB + BA = - 2	- i i k ∆
-W = -DE 4 LD-DC = - TL	
a) DO = - /2 (t + t)	
105	For old - En ! E
el EC = ED + DC = - w + u	2- 6 5-60
WEB = EC + CB = (t-t) - t = t-25	
No.	6.24.4.1.4.1
a) OB = 2 (u-w)	
	5 n 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
M AF = AB + BC + CD + DE + CF = - U	
- d - do - u + w + u	
3) pd 10	CA BATTLE
a) OA + OB + OC + OD + OE + OF = O	<u> </u>
e at to rest, to rest, tract,	
"e" em 60° "e' em 120° "e' em 60°	
	. 13
b) AB+ BC+CD+ DE+EF+FA = 0	
	(3 · 4 · 9
C) AB + BC + CD + DE + EF = AF	
FORON: d) OA + OB + OB + OE = - a - 2 + a +	e = 0

	200 - 20 - 20 - 20		Ĉ.
1-	e) oc + AF + EF = - t - t - t		
	- W ME - W		
	1) AE + DE = 0		
	A AF + DE = O		
-	4)		
-	- BP = BA + AP + - AB + 12AC/		
3	- AB + La /2 AC		
1	- · · - ·		
-	· AN = AB + BN + AB + & BC		_
~	LBC d	N. 11	
-	- L -	-	
	· CM : CB + BM = CB - 1 AB,		_
		er with Old Ci	_
	5)	P	_
	a) · cD = cB + BD = + BD = - 2 2 + Sil		
	-3¢ = -3t 4 L BA + AD		
3	-AB: -2 it of 4 Si	CA : CB + BA = -3û - 2	4
	an many same in the land	a marketing	
	· CD=-3u+(-2w+5w)=2u-2w		
~	b) AD: 5u u => ADIIBC . ABCD		
	BC: 3u) Ta	apendo	
~	11 - 1 - 1 - 1 - 1 - 1 - 1 - 1		
	6) DE = DA + AB + BE > 5/4 a	3 1 -	
	-AD=40 4 6 b-a		
	De = - 1/4 c + 16-0) + 5/4 a	A 1 - 1	
	= b-a+5/4a-4c		-
5	= b + 14 a - 14 c //		
	- 0 1 1 4 2 - 1 4 2 1	Your Y. Foro	NINE P
1		IVNU	A SERVICE

· AC: OC - OA: (Sa- xb) - (a+2b)= 4a+ (x- 2)b ·BC: OC - OB: (Sa+xb)-(Ba+2b) - La+(x-1)b AC: b. BC + 4a + (x-1)b= k (La + (x-2)b) · 4-2b=b=b, (x-D=L(x-2)= x-W= Lx-4 + x-Lx=-4+6+ -x=-L= x= L, · 0B = /m ON , OC = /1+m OM como ON e OM voi lodos e diago nous do posalelos como, OB e OC são compinades lineares dos mesmos sotores do base · ne A De C estoessem no mamo fano e os extores OB e OC forem valinaires, entro os gentes Be C estaros mo unema segment que A, porén, ambos os octeres coc multiples eschares de voltre de base, mão barendo dependencia linear conteralitaria, ABC proc calinears 9) · wa= u- 2w ~(2u+v)+B(u-2v)=0 (2x+B)u+(2-2B)~=0 2 x + 3 ~ 2 (1 p) + B : 0 + 5 B : 0 + B = 0 1 x + LB => x = LB a: L:0 = 2 x = 0 FORON: W, e W2 000 L. I . forman base

10)	
	a particular in the
3000 (u+0, u-w, u+w,)	a partir de comas e achte
LI. a portir de mamente a	and the same of the same of
des euleros ou combinaçõe	and plante
	are superior in the superior i
b) u+ w+ t1= u+ v+ (ah+ b	on+ cm) = (1+a) u= (1+b) x+ m)
ene weter wera L I com	ue w openas ese o esterna
(1+a) = 0, (1+b) = 0, c= 0 mão	for simultaneon on to sorder
Ou sejo, a+b+cf-1 goran	te que os vetores mos colossa
pora combinação L. D	The state of the s
	× 1 × 1 × 1 × 1 × 1
11)	3
al. AB: B. A: (0,-3,-3)	C) C + 1/2 AB
· 50 = C - A = (0, 1, 1)	C+ 2(0,-3,-3)
· CA · A - C · (0, 1, 2)	(1, 1-3/2, 0-3/2)
-	(1, -1/2, - 3/2)
b) AB + 1/3 BC	
10,3,31.1/3)(0,1,1)	d) A - LBC
(0, -3+ \(\frac{7}{3}, -\frac{3}{7}\) + \(\lambda(3)\).	A-2(0,1,1)
(0, - +/3)	(1,3-4,4-2)=(1,1,0)
12)	Const
a) (12,3), (0,2) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
b) (13,0), (-2,0) > f. d (mean	ma c/orogco)
0 (2,3,4), (0,3,3) 5 0 1;	. / /
d) 1 1, -1, 2), (1, 1, 0), (1, -1, 1)	~ 10
	7.0
f) h(1,0,1), (0,0,1), (2,0,5) }	· / · ·
	m - Le.

13) (2a+1b=1= 2(-1-b)+b= 1-a-b:1 b . - 3 1. · W = - BW + 27 x+2=1 ~0 2=1-x ~> |2=-1 is y = 3 - x ~ [y = 1] x+(3-x)+(1-x)=2 2= 2a+b-c1 3+1-x=2 x: 2,, 14) a) l.d: múltiplos entre si (w = b. a) e2m: m (m-1) => mo = = 2 de me en para b) mosmo da letera a)... m+ |= m.m: 08 = m (m+1) = m.m2 2 m3 m: m2-1 0 m= 22-1 0 m: 3 e m3 = 8 vo m = 2 FORON:

_				
_	15) m m²+1 m			
_	1 m - 1	1		1
_	- m2+1 0 1			1
	det = m. det lm 1, 011-1	m2+1). dut	111, -m2+	
	+ m. det 1 m; - m2.	101	× -	
	det: m.m - (m2+1) m2.		2	
	= m; (m; + 1) + m;	m2	A	
	= m - m - m - m	2		
	m² ≠ 0		a saidhtí se	-
	0 f m;		- 3 - 48	
	: veteres são lei para q	udgeer m	10, forman	do une bo
	1/ X			
	16)	1 1/1 1	1.01 + 1.11.1	0 0
_	a) 1 * det = 1 (0 · -1 - 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 ·	1/-1/11-	1.01 * 1.11.1	0.01
_		1 = 0	· i /omen	laa
		70	· C / Dimem	26/26
	b) x(1,1,0) + y(1,0,1) + x(1,	1-11=(22	41	
	(x + 11 + 2	23 4)		
	# 3	2,0,.,		
	TV X + 2 = 3			
$\overline{}$	5 4-2= 7 D 4= 2= 7	II.		
		_		
	I X+ 2+ 7+2=2			
	x +02=-5			
$\overline{}$	subterando I de I	s		
-	(x+22-(x+2)=-5-2			
	e eg = -8		1-11-	
	° × .3 - (-8) = 11			
	- 3 7 = - 1	/ 0.1		
7	7 W= 12,3,7 C= 11+1-1	2-8/3		
1	coordenades : (), -1,	0)		Foron
	base B		9:	FORON

ela(1,1,0): B(1,0)) + Y(1,1-1): (1,3,4) [(a, 2) + Y, al Y, 2 - Y) (1,3,7) [(a, 2) + Y, al Y, 2 - Y) (1,3,7) [(a, 3) + Y, al Y, 2 - Y) (1,3,7) [(a, 4) + Y, al Y, 2 - Y) (1,3,7) [(a, 4) + Y, al Y, 2 - Y) (1,3,7) [(a, 4) + Y, al Y, 2 - Y) (1,3,7) [(a, 4) + Y, al Y, 2 - Y) (1,3,7) [(a, 4) + Y, al Y, 2 - Y) (1,3,7) [(a, 4) + Y, al Y, 2 - Y) (1,3,7) [(a, 4) + Y, al Y, 2 - Y) (1,3,7) [(a, 4) + Y, al Y, 2 - Y) (1,3,7) [(a, 4) + Y, al Y, 2 - Y) (1,3,7) [(a, 4) + Y, al Y, 2 - Y) (1,3,7) [(a, 4) + Y, al Y, 2 - Y) (1,3,7) [(a, 4) + Y, al Y, 2 - Y) (1,3,7) [(a, 4) + Y, al Y, 2 - Y) (1,3,7) [(a, 4) + Y, al Y, 2 - Y) (1,3,7) [(a, 4) + Y, al Y, 2 - Y) (1,3,7) [(a, 4) + Y, al Y, 2 - Y) (1,3,7) [(a, 4) + Y, al Y, 2 - Y) (1,3,7) [(a, 4) + Y, al Y, 2 - Y) (1,3,7) [(a, 4) + Y, al Y, 2 - Y) (1,3,7) [(a, 4) + Y, al Y, 2 - Y) (1,3,7) [(a, 4) + Y, al Y, 2 - Y) (1,3,7) [(a, 4) + Y, al Y, 2 - Y) (1,3,7) [(a, 4) + Y, al Y, 2 - Y) (1,3,7) [(a, 4) + Y, al Y, 2 - Y) (1,3,7) [(a, 4) + Y, al Y, 2 - Y) (1,3,7) [(a, 4) + Y, al Y, 2 - Y) (1,3,7) [(a, 4) + Y, al Y, 2 - Y) (1,3,7) [(a, 4) + Y, al Y, 2 - Y) (1,3,7) [(a, 4) + Y, al Y, 2 - Y) (1,3,7) [(a, 4) + Y, al Y, 2 - Y) (1,3,7) [(a, 4) + Y, al Y, 2 - Y) (1,3,7) [(a, 4) + Y, al Y, 2 - Y) (1,3,7) [(a, 4) + Y, al Y, 2 - Y) (1,3,7) [(a, 4) + Y, al Y, 2 - Y, al Y,		
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I at y: 3 to a: 3-x I I 3. y: I to B: y: I I South of I I I I 10+ y: 2 to y: 8 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8]: 1 10 : 3- [8	= 1 (10+ Y, B= V) = (1 2 -1	
III 2. Y: 3 th a: 3 - Y II 3. Y: 7 th B: Y: 7 II 3. Y: 4 th Y: 2 10+Y: 2 th Y: 8 condend on = (11, -1, -8) th base b		
10+ y= 2 = y=-8 -d = 2- (-8) = 11 / - / - 8/2 coordened on = (11, -1 - 8) / 2 base b	I x+ y: 3 v x: 2 t	
10+ y= 2 = y=-8 -d = 2- [-8] = 11	II 3. V. F 1 3. J.	
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10+ y= 2 = y=-8 -d = 2- [-8] = 11	subst I CI C T	
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2 - (-8) = 11/1 - (-8/2) coondenador = (11, -1, -8/2) bare b	10+	
2 - 3 + 7 = 1 / - / 2 - 8/3 coordened on = (11, -1 - 8) base b		
= (2,3,7) b= 11/1-/2-8/3 coordened on = (11,-1,-8) base b	- C = (-B):	_
coondened of = (11, -1, -8) # base b	· B=- A+ f =- 1	
coondened on = (11, -1, -8) # base b	3 3 100 - 1	
base b	(2,2,7)6=111.=1 -01	_
	coordenados - 111 - 12 /2	
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