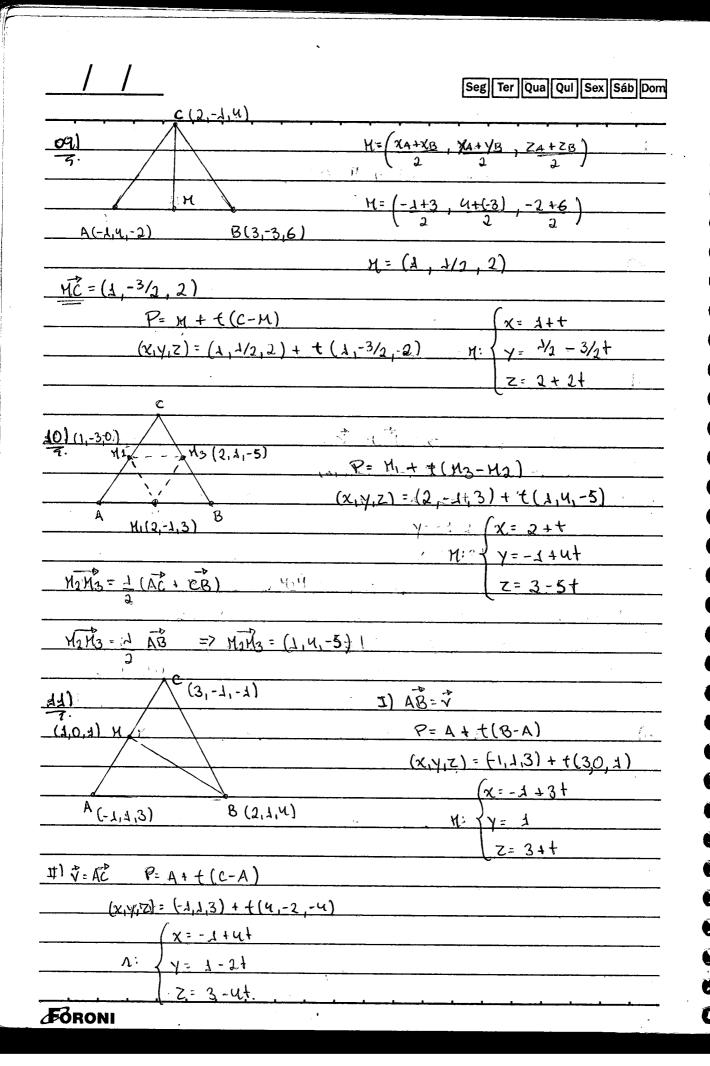
Seg Ter Qua Qui Sex Sáb Dom lúp 05 A Reta. 01) P= A+ +(B-A) f) $(x_1y_1z)=(2,-3,4)++(-1,2,-2)$ P(x,y,z) A(2,-3,4) B(1,-1,2) II) C(5/2,-4,5) M) D(-1,3,4) x=2-t y=-3+2t z=4-2ty=-3+2+ 4 = - 1/2 -1=2-t 3=-3+2t u=4-2+ z= 4-2t : -4=-3+2+ +=3 +=3 -2+=0 5=4-2+ +=-1/2 Den += -1/2 02) $\eta: (x, y, z) = (-4, 2, 3) + + (2, -3, 0)$ (x = -3 + 2)n: / /= 2-3+ z = 3 03) 7= (0,0,1) (X=7 M: (X,Y,Z) = (1,4,3), + +(0,0,1) H: Y = 2 A(1,2,3) 2=3++ ou) (x=2+4) (x=2+4)"N: } Y=3-+ P(x,6,z) +=-3 (P(-1,6,-10) bl x= y 2++= 3-+ x= 2+1/1= 5/2 $Q(x_1y_1z)$ 2+= 1 y=3-1/2=5/2(Q(5/2,5/2,-3) Z=-4+2(1/2)=-3 FORONI

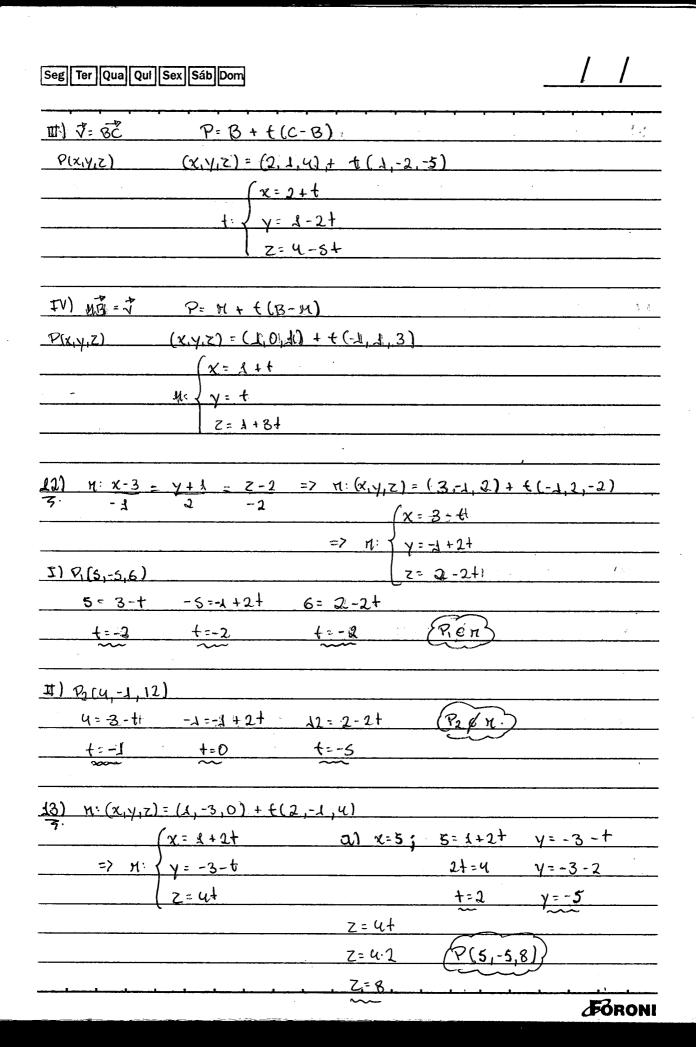
	Seg Ter Qua Qui Sex Sáb Dor
c) z=4x -4+2+ = 4(2++)) x=2-6= ncc = 3
R(x,y,z) -4+2+=8+4+	y = 3 - (-6) = 9
2+=-12	Z=-4+2(-6)=-16
+=-6	
	(R(-u,q,-16))
) = (2,2,31) + +(3,-4,-1)
	-5)=(4,-3,-2)++(3,-4,-5)
5. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	* **
Z=3-+ -5=-2=+	$m=u+3+ \qquad n=-3-u+$
<u>066:</u> t=3	m=4+3.3 n=-3-4.3
lomo s//r, os velores	M= 13 N= -16
diwos são igunis.	
O(6)(a) P = A + + (B-A)	$(x,y,z) = (\lambda,2,3) + +(0,1,-1)$
(x,y,z) = (1,-1,2) + t(1,2)	
x= 1++	n: \ y = 2+t
$\mathcal{H}: \left\{ \begin{array}{c} y = -1 + 2 + \\ \end{array} \right.$	Z=3-t
Z= 2-2t	
b) (x, y, z)=(3,1,4) + f(0,-3,-2)	d) (x,y,z)=(0,0,0)+ t(0,1,0)
(x: 3	(x=0)
M: { y = 1-3+	M: { Y= t
z=4-2+.	Z: 0
07).a) A(2,0,4) (P=A+f(B-A)	(x,y,z) = (2,0,4) + t(-2,0,0)
B (0,0,4) =	(x=2-2+
P(x,y,z)	n: { Y=0
l .	Z= 4'
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Seg Ter Qua Qui Se	ex Sáb Dom				/	/
b) c(0,3,0)	P= C4 +(D-C)	(x=	2+		· v
D(2,3,0)		3,0)+t(2,0,0)	n: y =			<u> </u>
P(x,y,z)			Z=			
c) A(2,0,4)	P= A + t(1	> A.V			·	· ·
D(2,3,0)	'			x= 2	·	
•	(2,4,2)= (2,0,	4)+ (0,3,-4)	M: }	Y= 87		
P(x,y,z)		:	.	Z= 4-0	<u>ct</u>	
d) B(0,0,4)	P= B+t(c	-R)	<u></u>	(= O		
C (0, 3,0)	(x, y,z) = (0,0,					
P(x, y, z)	- () 	0014 (00,3,54)		6= 3t		
		, e		z= u-at		
e) D(2,3,0)	P: D.4 t(E	- 2)	(x = 2		
E(2,0,0);	(x,y,z) = (2,3,0		1	1=3-3	<u> </u>	
P(x, y, z)			- 1	Z=0		
	*	b		<u> </u>		
P) B(0,0,4)	P= B+t(D	-B)	()	C= 21		
D(2,3,0)=	(x,y,z)=(0,0,0	1)+t(2,3,-4)	n· { ·	X = 3+		
P(x, y, z)			1	Z= U-4+		
			L .			
8) P(m, 1,n)	P= A+	f(B-A)		(m=	3+t	
A (3,-1,4)	(m, 1, n) =	(3,-1,4)+t(1,	-2,-5)	H: { 1 :	-1-2	+
B(4,-3,-1)			·	<u> </u>	4-5	<u> </u>
	1=-1-2+	m=3+t	n=4-	5 t		
	-2+=2	m=3-1	n=4-8	()		
	+= -1 ~~~	m=2	n=4+	5		
			n=9	ı	٧	
(P(2,4,9))						
		4				

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	Seg Ter Qua Qui Sex Sá	b Dom
b) y=2;	y=-3-+ x=1+2+ == Z=u+	i
	2=-3-+ x= x= x+2(-6) Z=4(-6)	·
	+=-5 χ=-9 Z=-20	
Q(=9,2,-3	20)}	·
44) P(A, Y, Z)	1 1: (2x,3y,2)=(-1,2,-4)+(3,2,1)	
۶۰ 	(2x=-1+3+===	
2=-1434	3y = 2 + 2 + 1 $y = 2 + 2 + 2 + 2$	· · · · · · · · · · · · · · · · · · ·
+= J	3y=2+2 Z4++	
~~~	y = 4/3	·
2=-4+1	(P(1,4/3,-3))	
Z=-3		
~		
++\ \(\alpha\)	nDon' (x,2,2)	
	Was ( 12,2)	
. 0 1	$-3y^{-2} - z + y - y - \frac{1}{3} - \frac{1}{2} - \frac$	<u> </u>
$\frac{H \cdot 2x + 3}{3}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
		<u> </u>
M: (X112)	=(-1/2, 2/3, -u) + f(3/2, 2/3, 1)	
•	<b>★</b>	
	vetor direvor.	
<u> </u>	3 (3/2, 2/3, 1)	
	$\{(9/2,2,3)\}$	
	· ·	
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45) a) A(4,0,-3) 7. ** V=(2,4,5)	M: (x,y,z)=(4,0,-3) + t(2,4,5)	
	=> 4. x-4 = \ \ 2 = Z+3	
	=> H. Sy = 2x-B	
	Z= 5x/2-13	N . N Z
P) V(7'-5'3)	P= A+ t(B-A)	
B(3,-1,-1) P(x,y,z)	x:(x,y,z)=(2,-2,3) + t(2, 1,-4)	
	=> H: X-1 = 7+2 = 2-3	
x-1 - y+2	x-1-z-3 2 -u (y=x-5	
$\frac{x-y}{2} = y+2$	Z-3=-2x+2 => H: $Z=-2x+5$	
Y=x-1-4=x-5	$\frac{Z=-2x+5}{Z=-2x+5}$	V Sign
c) 4(-1,2,3)	P= A + ((B-A)	
8(2,-1,3)	1 - H: (X, Y, Z) = (-1, 2, 3) + E(3, -3,0)	
P(x,y,z)	$\frac{1}{3} - \frac{1}{3} + \frac{1}{3} = \frac{1}{2} = \frac{1}{2} = \frac{1}{2} = \frac{1}{2}$	,, , , , , , , , , , , , , , , , , , ,
211 = y-2 x1 3 -3 3	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
	7-3-0	
X=-X+7	Z=3 ~~	

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Seg Ter Qua Qui Sex Sáb Don
d) $\begin{cases} x=2-t & -y \cdot y \cdot x-2 = y = z+5 \\ y=3t & -\lambda & 3 & 4 \end{cases}$
z=ut-5 Fquuqões ruduzidas:
$\frac{x-2-y}{-1} = \frac{x-2-z+5}{3}$ $\frac{x-2-z+5}{-1} = 7$ H $\begin{cases} y=-3x+6 \\ z=-4x+3 \end{cases}$
Y= -3x+6 Z+5= -4x+8
Z=-4x+3
46) A (-1,6,3) P= A + £(B-A)
B(2,2,1) = H'(x,y,z) = (-1,6,3) + f(3,-4,-2)
$\frac{241 = 2-3}{3 - 2}  \frac{7-6}{-7} = \frac{2-3}{-7}$
Equações Sinnétnicas;
= 7 + 1 + 2 + 3 - 4 - 2 $= 7 + 1 + 2 + 3 - 4 - 2$ $= 7 + 1 + 2 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4$
X=-3z+7
Equações moluzidas:
$= \frac{1}{2} \left( x = -3z + \frac{1}{2} \right)$
y = 2z
$\frac{441}{3}$ $(y=2x+3)$ $(y=9)$ $(y=2x+3)$ $(y=3-1)$ $(y=3+3)$
$\frac{2x-3}{x-3}$
b) $x=2z$ ; $z=x-1$ $1=x-1$ $y=2\cdot 2+3$ $0.(2,7;1)$
Z=2z-A X=2 Y=7
<u>Z=1</u>
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Seg Ter Qua Qui Sex S	âáb Dom		
e) y= 3z ;	∫3z= 2x+3	3(x-1) = 3x + 3	Z=6-1 (*
	Z= x-1	3x-3=2x+3	z= <b>5</b>
y=3.5= 15		x=6	
	``		
R(6,15,5)			
18) a) $(x=1-t)$ 7. H: $(y=-1+2)$		z) = (1,-1,2)+.E(-1,2	<u>,1)</u>
Z= 2+ t	7 7	)	
	4	· · · · · · · · · · · · · · · · · · ·	
· · · · · · · · · · · · · · · · · · ·	· v	· · · · · · · · · · · · · · · · · · ·	
		i de la companya della companya della companya de la companya della companya dell	
19/01 7 = (1/0,0) -	n: (x,y,z) = (3	,-2,4) + + (1,0,0)	
3- A(3,-2,4)			
P(244,Z)	=> n: {'Y=-'		
	Z= 4		en e
b) v= (0,1.0)	5: (x,y,z) = (c	1,2,4) + +(0,1,0)	· · · · · · · · · · · · · · · · · · ·
A (2,2,4)	( % =	2	
	=7 5: { y=	2+t	
and the second s	2=	ų	
c) v (0,0,1)	p: (x,y,z) = (	(-2,3,4) + (0,0,1)	
A(-2,3,u)	(x=-3	1	
	=7 p: \ y=3		
	2=4		
$d)\sqrt{(3,-2,0)}$	,	(4,-1,3)++(3,-2,0)	
A(4,-1,3)		= 4 + 3 +	
·	=7 4: } 4		
		3	<b>₽</b> ORONI
	· · · · · ·	<u></u>	<i>⊘</i> PORUNI

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	Seg Ter Qua Qui Sex Sáb Dom
e) A(3,-1,3) P= A+t(B-A)	A No.
B(3,3,4) M: (x,y,z) = (3,-1,3) + f(0	(4,3)
$P(x,y,z)$ $\chi = 3$	
$= 2 \text{ ni: } \begin{cases} y = -3 + 4 + 4 + 4 \\ y = -3 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + $	
Z=34t	*:
	·
30) $A(u,-5,3)$ I) $0x = 7\sqrt{2}(4,0,0)$	
M: (x,y,z)=(4,-5,3) ++	(4,0,0)
(x=y+t)	
=7 M: \ y = -5	
Z=3	
II) Oy => V=(0,1,0) III) Oz =>	V= (0,0,1)
5: (x,y,z)=(4,-5,3) + f(0,1,0) p:(x,y	z  = (4, -5, 3) + + (0, 0, 3)
- X= U -	\(\chi_{\chi_{=}} 4
=7 5: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	√2-5 × 13
<u>Z=3</u>	Z=3+t
<u>.</u>	√, = (-1, 1, -2)
$\frac{M_1!}{y=t} = \frac{M_2!}{y=-6+t}$	V2=(2,1,1)
z=3-2t z=1+t	
***	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
70 70	
$ V_1  = \sqrt{(-1)^2 + 1^2 + (-2)^{21}} = \sqrt{6}$ $ V_2  = \sqrt{(-1)^2 + 1^2 + (-2)^{21}} = \sqrt{6}$ $ V_3  = \sqrt{(-1)^2 + 1^2 + (-2)^{21}} = \sqrt{6}$	$\frac{-21}{6} = \frac{3}{2} = \frac{1}{2}$
1/21- /2 + 2 + 2 - /0	
los 9 = 1 = 60°,	<u>,                                    </u>
•	·
<b>Æ</b> ORONI	\

Seg Ter Qua Qui Sex Sáb	Dom		-		/
b) {y=-2x+3 Z= x-2	12: Y= Z+A; X	- <b>4</b> ,	10 (1,-1,0)	) !	
Z= x-1			1, (1,-2,1	)	<u> </u>
x=0, A(0,3,-2)	$cos\theta =  \vec{V_1} \cdot \vec{V_2} $ $ \vec{V_1}  \cdot  \vec{V_2} $	= 1(1,-2,1)	(1,-1,0)		
X:1; B(4,4,-4) =	· · · · · · · · · · · · · · · · · · ·	······································		·*····································	
√ ₁ = ( <u>1</u> , -2, ½)	= 4+2	218 53	3\\\ 3 \cdot \lambda 2	<u>-35°</u>	<del></del>
v,   = \( \langle 1 \frac{1}{4} \cdot (-2)^2 + 1^2 \) = \( \sqrt{6} \)					
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\					
	ſ	- <del>-</del>			
$(x = 3 + \sqrt{2})^{\frac{1}{2}}$	M2: \ N=2	√1:(√2 →			
74: \ y=t Z=5-3t	13: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	V2 = (0	.ㅇ,ᆟ)		· · · · · · · · · · · · · · · · · · ·
		14: 14	22+ 22+ (-3)2 =	173	
los 0 = 1(12, 1, -3) · (0,	0.4)	1/2 1 = 1		<del></del>	
V12			···		
0.05P = 1-31.53 =	·353 - ·53 - ·20°				
6950 = 1-31  \text{J3} = 2\text{J3}  \text{J3}	6 2			<del></del>	
			And the Collection of the Coll		
d) H : X - Y = Z + 2	(x:4	, , , , , , , , , , , , , , , , , , ,	= (2,-1,-2)		
7 -7 -5	$\begin{array}{c c} & \text{M1} & \text{Y} = Z-1 \\ \text{Y} & 3 \end{array}$		2=(0,4,3)		· <del>************************************</del>
V  = -   22+(-1)2+ (-2)2 = 50	7 ¹ =3 los <del>p</del>	·=   (2,-1,-2)·	(0,4,3))		-
V2  = V42+32 = J25 = 6		3.5			
	<b>295</b> 9	= 1-401 z	10 = 2 g	48,770	
<del></del>	,			/	<del></del> -
			•		
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$\frac{32)}{5}$ a) $\frac{x \cdot 2}{4}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
vi= (1, n, 2)	$  \cos \theta = 30^{\circ} \qquad                                     $
,	$5\sqrt{2} \cdot \sqrt{1} + 5$ $5\sqrt{2} \cdot \sqrt{2} + 3$ $5\sqrt{2} \cdot \sqrt{2} + 20$ $5\sqrt{2} \cdot \sqrt{2} + 20$
	$\eta^2 - 8\eta + 7 = 0$ $\eta^1 = 7$ $\Delta = 64 - 28 = 36$ $\eta^{11} = 1$
b) $y = y = 1$ $z \neq 2x$ x = 0; $A(0, -1, 0)$	$V_1 = (0, \lambda_1 0)$ $ V_1  = 1$ $ V_2  = \sqrt{\eta^2 + 5}$
$\chi_{=1}$ ; $B(1,\eta_{=1},2)$	$\frac{(0,1,0)\cdot(1,n,2)}{\sqrt{n^2+5}} = \frac{\sqrt{3}}{2}$
	$\eta \cdot 2 = \sqrt{3\eta^2 + 15}$ $(2\eta)^2 = (-\sqrt{3\eta^2 + 15})^2$
	$4\eta^2 = 3\eta^2 + 16$ $\eta^2 = 16$ $\eta = \pm \sqrt{15}$
<b>F</b> ôroni	.5

Seg Ter Qua Qui Sex Sáb Dom	
$\frac{23) \text{ a)}  \begin{cases} x = 2mt - 3 \\ 7 \end{cases}  \begin{cases} x = 2y - 3 \\ 12 \end{cases}  \begin{cases} x = 2y - 3 $	- `¶a.` = O .
Y=0; A(-1,0,4)	
1= (2m, 3, -4) Y=1; B(1,1,3)	
NJ = (3,1,-1)	
V1. V2 = 0	· · · · · · · · · · · · · · · · · · ·
$(2m_13,-4)\cdot(2,1,-1)=0$	
4m+3+4=0	
4m = -7	
m==4/a	·
b) $\{y = mx + 3 \}$ $\{y = mx + 3 \}$ $\{z = x - 4 \}$	•
$\sqrt{1} = (\lambda_1 m_1 \lambda)$	,
1	
m - 1 $m = -1$ $m = -1$	4
$\sqrt{1 \cdot \sqrt{2}} = 0$ $-3 + 2m^2 + m = 0$	
	b/y = -3/2
$m_{n} = -\frac{1}{2}$	1
$\frac{2u}{3}$ a) $A(3,2,-1)$ $H_1: \begin{cases} x=3 \end{cases}$ $H_2: \begin{cases} y=x-3 \end{cases}$ $\begin{cases} z=-2x+3 \end{cases}$	
$\sqrt{1} = (0,0,1)$ $\chi = 0; C(0,-1)$	3,3)
x=1; D(:14-	
$\sqrt{2} = (\frac{1}{2}, \frac{1}{2})$	-2]

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Seg Ter Qua Qui Sex Sáb Dom
Equações Paramétricas que passa pelo ponto A.
$\frac{M: (3.4.5) = (3.21) + f(-1.1.0)}{(x=3+t)}$
$\frac{1}{\sqrt{z}} = 2 + t$ $z = -4$
b) $A(0,0,0)$ $M_1: \frac{x}{2} = \frac{y}{2} = \frac{z-3}{2}$ $M_2: \begin{cases} x=3+\\ y=-++1 \end{cases}$ $Z=2$
$\sqrt{2} = (3, -1, 0)$
$ \frac{\vec{1}_{1} \times \vec{1}_{2}}{2} = \frac{\vec{1}_{1} \cdot \vec{1}_{2} \cdot \vec{1}_{1}}{2 \cdot \vec{1}_{1} \cdot \vec{1}_{2}} = \frac{\vec{1}_{1} \cdot \vec{1}_{2} \cdot \vec{1}_{1}}{2 \cdot \vec{1}_{1} \cdot \vec{1}_{2}} = \frac{\vec{1}_{1} \cdot \vec{1}_{2} \cdot \vec{1}_{1}}{2 \cdot \vec{1}_{1} \cdot \vec{1}_{2}} = \frac{\vec{1}_{1} \cdot \vec{1}_{2} \cdot \vec{1}_{1}}{2 \cdot \vec{1}_{1} \cdot \vec{1}_{2}} = \frac{\vec{1}_{1} \cdot \vec{1}_{2} \cdot \vec{1}_{2}}{2 \cdot \vec{1}_{1} \cdot \vec{1}_{2}} = \frac{\vec{1}_{1} \cdot \vec{1}_{2} \cdot \vec{1}_{2}}{2 \cdot \vec{1}_{1} \cdot \vec{1}_{2}} = \frac{\vec{1}_{1} \cdot \vec{1}_{2} \cdot \vec{1}_{2}}{2 \cdot \vec{1}_{1} \cdot \vec{1}_{2}} = \frac{\vec{1}_{1} \cdot \vec{1}_{2} \cdot \vec{1}_{2}}{2 \cdot \vec{1}_{1} \cdot \vec{1}_{2}} = \frac{\vec{1}_{1} \cdot \vec{1}_{2} \cdot \vec{1}_{2}}{2 \cdot \vec{1}_{1} \cdot \vec{1}_{2}} = \frac{\vec{1}_{1} \cdot \vec{1}_{2} \cdot \vec{1}_{2}}{2 \cdot \vec{1}_{1} \cdot \vec{1}_{2}} = \frac{\vec{1}_{1} \cdot \vec{1}_{2} \cdot \vec{1}_{2}}{2 \cdot \vec{1}_{1} \cdot \vec{1}_{2}} = \frac{\vec{1}_{1} \cdot \vec{1}_{2} \cdot \vec{1}_{2}}{2 \cdot \vec{1}_{1} \cdot \vec{1}_{2}} = \frac{\vec{1}_{1} \cdot \vec{1}_{2} \cdot \vec{1}_{2}}{2 \cdot \vec{1}_{1} \cdot \vec{1}_{2}} = \frac{\vec{1}_{1} \cdot \vec{1}_{2} \cdot \vec{1}_{2}}{2 \cdot \vec{1}_{1} \cdot \vec{1}_{2}} = \frac{\vec{1}_{1} \cdot \vec{1}_{2} \cdot \vec{1}_{2}}{2 \cdot \vec{1}_{1} \cdot \vec{1}_{2}} = \frac{\vec{1}_{1} \cdot \vec{1}_{2} \cdot \vec{1}_{2}}{2 \cdot \vec{1}_{1} \cdot \vec{1}_{2}} = \frac{\vec{1}_{1} \cdot \vec{1}_{2} \cdot \vec{1}_{2}}{2 \cdot \vec{1}_{1} \cdot \vec{1}_{2}} = \frac{\vec{1}_{1} \cdot \vec{1}_{2} \cdot \vec{1}_{2}}{2 \cdot \vec{1}_{1} \cdot \vec{1}_{2}} = \frac{\vec{1}_{1} \cdot \vec{1}_{2} \cdot \vec{1}_{2}}{2 \cdot \vec{1}_{1} \cdot \vec{1}_{2}} = \frac{\vec{1}_{1} \cdot \vec{1}_{2} \cdot \vec{1}_{2}}{2 \cdot \vec{1}_{1} \cdot \vec{1}_{2}} = \frac{\vec{1}_{1} \cdot \vec{1}_{2} \cdot \vec{1}_{2}}{2 \cdot \vec{1}_{1} \cdot \vec{1}_{2}} = \frac{\vec{1}_{1} \cdot \vec{1}_{2} \cdot \vec{1}_{2}}{2 \cdot \vec{1}_{1} \cdot \vec{1}_{2}} = \frac{\vec{1}_{1} \cdot \vec{1}_{2} \cdot \vec{1}_{2}}{2 \cdot \vec{1}_{1} \cdot \vec{1}_{2}} = \frac{\vec{1}_{1} \cdot \vec{1}_{2} \cdot \vec{1}_{2}}{2 \cdot \vec{1}_{1} \cdot \vec{1}_{2}} = \frac{\vec{1}_{1} \cdot \vec{1}_{2} \cdot \vec{1}_{2}}{2 \cdot \vec{1}_{1} \cdot \vec{1}_{2}} = \frac{\vec{1}_{1} \cdot \vec{1}_{2} \cdot \vec{1}_{2}}{2 \cdot \vec{1}_{2}} = \frac{\vec{1}_{1} \cdot \vec{1}_{2} \cdot \vec{1}_{2}} = \frac{\vec{1}_{1} \cdot \vec{1}_{2}}{2 \cdot \vec{1}_{2}} = \frac{\vec{1}_{1} \cdot $
que passa pula pondo A.
$\frac{4x^{2}}{4x^{2}} = (0,0,0) + (2,6,-5)$ $= (x = 2+$
=
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C) $\begin{cases} x = 2+t_1 \\ y = -2+2t_1 \\ z = 3t_1 \end{cases}$ $\begin{cases} x = 1-t_2 \\ y = t_2 \end{cases}$ $\begin{cases} x = 1-t_2 \\ z = 2+2t_2 \end{cases}$ $\begin{cases} x = 2+2+2 \\ z = 2+2+2 \end{cases}$ $\begin{cases} x = 2+2+2 \\ z = 2+2+2 \end{cases}$	
$\frac{1}{\sqrt{1}} = \frac{1}{\sqrt{2}} = 1$	2
z=0 $z=0$	1-6t
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
b) $(3+2t, (-4+t2) = 3) = 3+2t_1 = -4+t_2 = 11 = 4-2t_1$ $(4+4) = -4 = 4$ $(3+2t, (-4+t2) = 4 = 2t_1 + 4$ $(3+2t, (-8+3t2) = 4 = 2$ $(3+2t, (-8+3t2) = 4 = 2$	- <b>u</b>
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$(z) \begin{cases} y = 2x - 3 \\ z = -x - 10 \end{cases}$	H2: X= y-4	- 212
=> 11: { x=t y=-3+2+	=> 42: { x=t y= 43t	
Z=-10-t 	Z=-1-2 -3+2+= 4+3+ 期)	-10-t = -1-2t
	. 4	t=-9
	courentes.	
A) $(x=2-t)$ y=3-5t z=6-6t	7=-1+13q	1) $2-t=-3+6\Omega$ 11) $3-5t=3+4\Omega$ 11) $6-6+=-1+13\Omega$
J) f= 5-6h I)	3-25+309=1+7h	期) 6-30+364=-1413h
t=-d	234=23 h= 3	23h = 23 h : 1
7(3,8,12)	- 1	
e) $x = 3 + t$ x = 4 + 3 + t	$42: \sqrt{x^2 - 2 + 41}$	1) 2+t = -1+ut 3+=3
#) 4-2t = 2+3t	Z=5-2t II) 1+3+=5-2+	Hão são concoventes
4=2/5	5+=4 +=4/5	
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0) $\begin{cases} x = 2 + t \\ y = u - t \end{cases}$ $\begin{cases} x = 2 - x \\ z = 2 - x \end{cases}$ $\begin{cases} x = 2 - x \end{cases}$ $\begin{cases} x = 2 - x \end{cases}$	$\begin{cases} \chi = t \\ y = 6 - t \\ z = 2 - t \end{cases}$
1) 2+t=t 1) 4-t=6-t	型) -t=2-t
Mão são eoncovientes.	
26) a) $\begin{cases} x=t_1 & \begin{cases} x=s+t_1 \\ y=-s+2t_1 \end{cases} & \text{12:} \begin{cases} y=mt_2 \\ z=-z+t_2 \end{cases} \end{cases}$	JA 2-6-t2 = - 1+t2
$m_{12} = -5 + 2 + 1$ $-m = -5 + 8$ $-m = 3$	1, = û. 4, -
b) $\begin{cases} x=m-t, & \begin{cases} x=\lambda+3t_2 \end{cases} \\ y=\lambda+t_1 & \begin{cases} x=\lambda+3t_2 \end{cases} \\ z=2+t_2 & \begin{cases} z=-2+2 \end{cases} \end{cases}$	
3) 2+1=-2+2	M1) m+3/2= 1+ 9/2
$t_1 = -t_2$	m = 1 + 6/2 $m = 8/2$
$\frac{47 = 3/2}{47 = -3/2}$	m=4
•	
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24) (x= 1+2t,	(x=+2	z) -41	= -1412	<u> </u>
$n_1: \{y=-t_1, m_2: $	{y=-1+t,	4.	= 1-42	
z=3	Z=2+t2			
#) 3=2++2 III) +1=0	1(1)	0,3)		
45:7	A(0,	7.01		
	,			
EV) P = A + £(I-				
(x,y,z) = (0,10)	t + (-1) + +	3,) .	<u> </u>	V
$\left(x=4\right)$	<u>X = y</u>	-d = 2.	3′	•
H	. (			
(≥= 8+.		•		
	হ=:3	<b>L</b>	•	
28) (x=2+t	(2,-1,2)			
3 M: { y = t	A •	(7'0'-7)		
2=-1+2+	9	<u> </u>		
	Č(ait,	+,-4+21)		3 A
I) AZ= C-A= (+, ++1, 2++1)	=   JAZ   (E	180		· · · · · · · · · · · · · · · · · · ·
BC= C-B= (++1,+,2+)	-V{2+(	++1)2+ (2++1)3	1= (4+x12+42	+ (24)2
			- 44 4 2 = 42 124 11 -	
•		ut=-		
(		451	(u )	
斯) x=2+(-1/4) = 3/4	's,			
y = -1/4	C(3/4,-1/4	-3/2)		
z=-1-2/4=-3/2				
	,			

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(29) $(x=2+t)$ $(x=2+t)$ $(x=2+t)$	1 - 22 - 73
7. n. Y= 4+2 t A(2,113)	
Z=3+2+ I) 1AP1=6	
$\sqrt{{{1 \cdot {2} + (21)^{2} + (21)^{2}}} = 6$	
12+u12+u12=62	<u> </u>
t ² : 36/q =7+=±2	
1) p(a, 5, 7) ou	
P(0,-3,-1)	
b) BP = R-B = (1++, 2+2+, 2+)	
B(1,-1,3)	
I) 1861- 2	
$\sqrt{(4+t^2) + (2+2+)^2 + (2+)^2} = 2$ => $t = -10 \pm 8$	
1+2+++2+ 4+8++4+2+4+2=4	
912+10+1=0 t=-1	
Δ=100-36 +"= 1/q	
1-64	1
II) P(1,-1,1) ou P(17/9, 7/9, 25/9)	
30) A (1,3,5) H: (x,4,2) = (1,3,5) + + (-1,3,0)	
~~.	٠
$P(0,0,5)$ => $y \cdot x \cdot 4 = y - 3$ , $z = 8$ $AP = P \cdot A = (-1, -3, 0)$	
3) - 3x+3 = -y+8	=> (\v=3x
y=3x	71: Z=5
7-32	
31) a) A(4,-2,2) K: x = 2y = -2z => M: x = 2	¥ = Z
S: X-4 = Y+2 - Z-2 7=1	(2, 4, -4)
2 4 -1	
$\chi = -2z48$	
$\Rightarrow 7 \in Y = -7$	
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b) $P(0,0,0)$ 1) $y: 2x-1 = y+2 = 2z-2$ 3 -2	A for
H: x-V2 = y+2 = z-4	VH = (3, -4, 1)
II) 6: X=-y=-Z 単) ジェリルメンち=	
√5° (1, -1, -1)	3 -4 1 3 -4
	1-1-1
40+3-37	~ + uk + ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
	j+ k
(5,4	(1)
<u>tn)</u> (24	
<u>q: {ut</u>	
32) V= AB= B-A= (-2, 4, -2)	
P= (-2, 4,0)	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
206 p = 3√30 = √30 → p = 24, 1° 30 6	
33) $(x=t)$ $\vec{v}=(1,5,-2)$ 1) $z=$	0 I) y=52-7
-7	46=0 y=15-7
	5=3 Y=8
	~
Wt) x=34t	
5: Y=8+St	
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$\frac{341}{5}$ a) A(3,4,-2)	ę A	
P(1+t,2-t,4+2+)	,	
$\sqrt{p} = (\lambda, -\lambda, 2)$	P	
Va · RA = O	PA(4,0,-2)	
(A,-1,2), (2-t,2+t,-2+-6)=0		
2-t+(-2-t)+(-u+-12)=0	(x=3+4A	
-6t=12	5. {y=4	
t = -2	Z= -2-2h	
b) $1401 = \sqrt{4^2 + (-2)^2} = \sqrt{20}$		
· · · · · · · · · · · · · · · · · · ·		
c) ?		
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