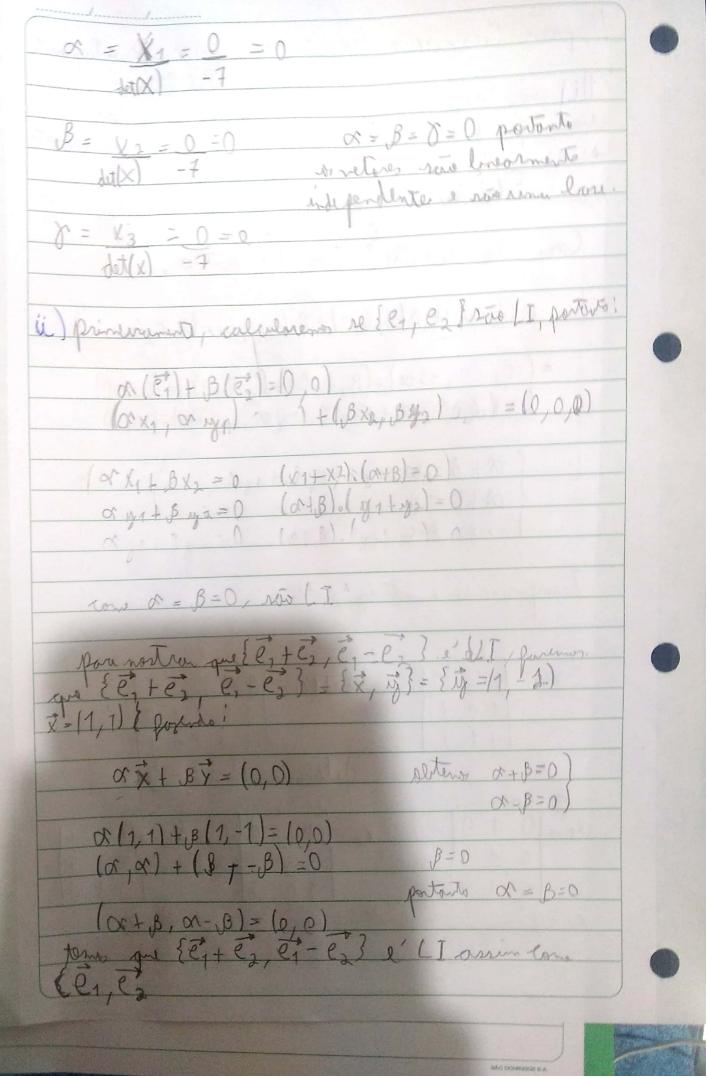
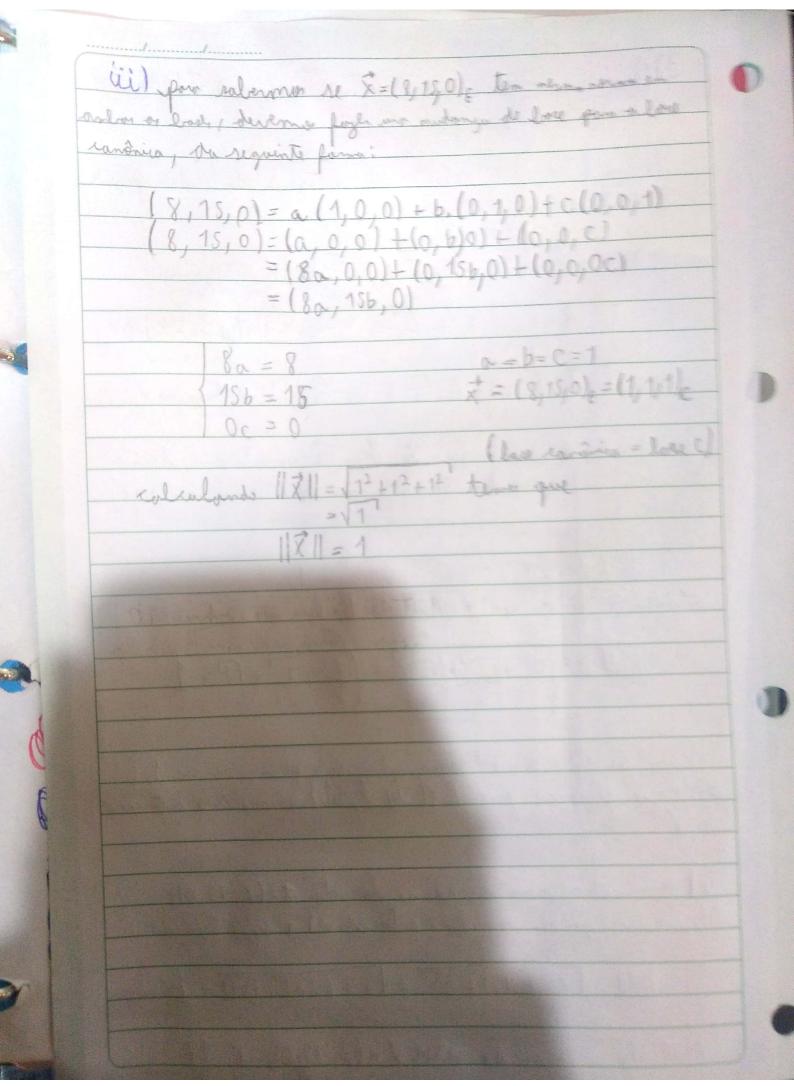
	da immediant
	From GEOMETRIA ANNIGTICA Juin Peter Bustando
	11:1 P. 4 712650
	salvens que fodemen excrever or Noters de Fdu regents roneiro:
	ronling;
	$\vec{F}_{1}(1,2,-3)$ $\vec{F}_{3}=(1,91)$ $\vec{F}_{3}=(0,1,3)$
	Esses vetore derenner vetore Li, petonto;
	$\alpha(1, 1/3) + \beta(1, 0, 1) + \delta(0, 1/3) = (0, 0, 0)$
O	$= (\alpha, \alpha, -3\alpha) + (\beta, 0, \beta) + (0, 8, 38) = (0,0,0)$ $(\alpha + \beta + 0, \alpha + 0 + 8, -3\alpha + \beta + 38) = (0,0,0)$
	$\begin{cases} \alpha + \beta = 0 \\ \alpha + \gamma = 0 \end{cases}$
	-3 of + B = 0
	T . t · ata ·
	burlomands entrating, getterno;
9	X= 11 0 = del(x) = 11011
	-3 1 3 -3 1 -3 1 3 -3 1
	deth= -7-7-3 = -7
	Par crown:
	$x_1 = 0.10 = 0.$ $x_2 = 1.10$
	0 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	$x_1 = 0$ $x_2 = 0$ $x_3 = 0$
	2-0
	SAD DOMINIOUS S.A.



2)i) Tendo A = (1,0,21, B=10,2,3), C=(4,3,7).
D=(3,1,0) fazenos - $\overrightarrow{AB} = (0, 2, 3) - (-1, 0, 2) = (1, 2, 1)$ $\overrightarrow{DC} = (4, 3, 1) - (3, 1, 0) = (4, 2, 1)$ $\overrightarrow{AD} = (3, 1, 0) - (-1, 0, 2) = (4, 1, -2)$ $\overrightarrow{BE} = (4, 3, 1) - (0, 2, 3) = (4, 1, -2)$ Como AB = DC e AD = BC Do portos Não vertires the un familela grane ii) fora calcular a área do un garalologramo Tenos A = 1 AB . AD 11 AP-AP = 12 1 12 = - 51 + 64 - 7 H AB AD = (-5,6,-7) 1/AB · AD 11 = V(-S)2 +(62+1-7)21 = V110 + vien é vyvol a V170 come es veteres AB, DC,BC & AD now rose request em ma kotalitale, a fryna farmda for elle a mo

3) (1) Para promoner que en reture \$\frac{1}{4} = (1,0,0), \$\vec{v}(0,\vec{v}), \vec{v}(0,\vec{v}), \vec{v Devenor desceloir se 19 vetors são entogorais das a dair, faze do a freshets esselve delator a 1. 1 = (1.0+0. 5+0. 5)=0 ortogonais/ U. W = (0.0 + \\ \frac{12}{2} + \frac{12}{2} - (-\frac{12}{2})) = (0+\frac{2}{4} - \frac{2}{4}) = 0 U.W=(1.040, 3+0.-3)=0 ortogorais / legers que denstring que it, it etil ses entegenis, derende enestry o morne des merme, your signi, send une lose lumanatra 117 H= 102 + 1212 + 1212 = 1212 = 12 - 12 - 1 = 1 = 1 || W| = \(\text{0}^2 + \text{1}^2 + \text{1}^2 = \(\frac{1}{2} + \frac{1}{2} = \frac{1}{2} + \frac{1}{2} = \frac{1}{2} \) Come os reteres nos entegenios entre ria persuen norma 1, 1 m. podemes afriras que E={\vec{v}, \vec{v}, \vec{v}} e'ums lorse artanorms de V. ill Para calcelormes a norma da veter 7:= (8, 15,015, utilizaremes (for se una los ortonormal) a regiento formelo: 11×11=182+152+02 = 164+225=128=17 partents a remarke veter \$ = (8, 15,0) & é 17



Digitalizado com CamScanner