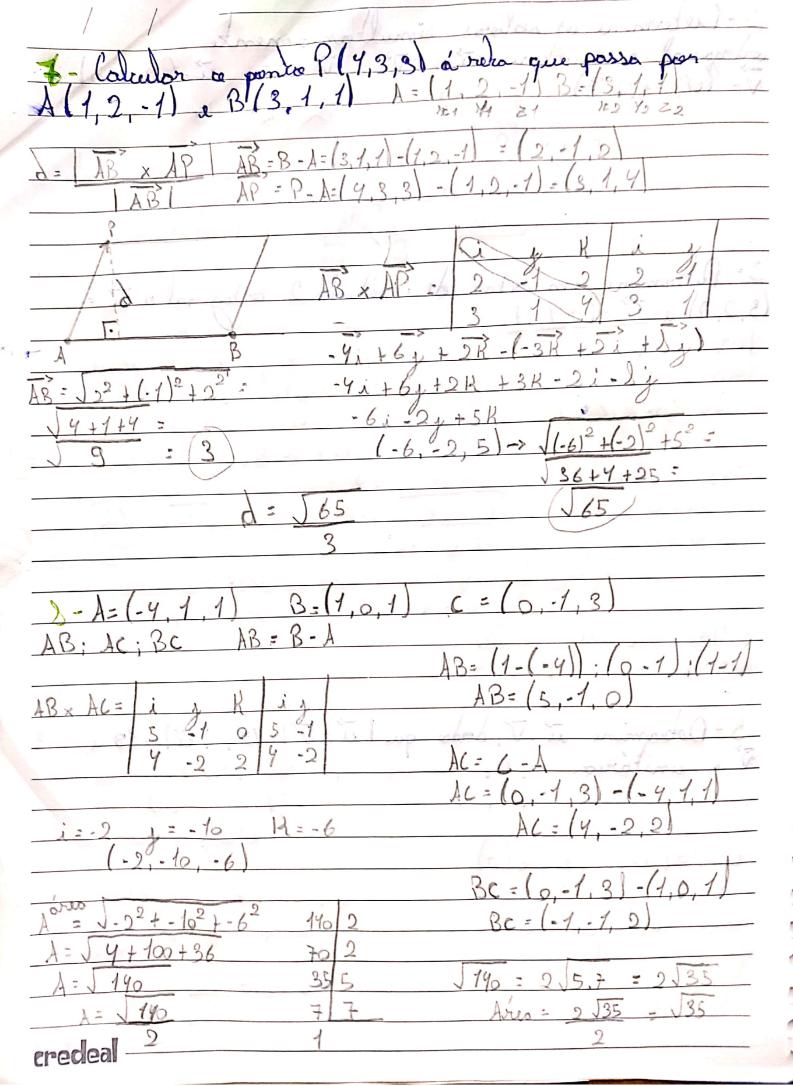


2- Determine as valores simultaneamente
ortogonal aus netores il + 2 V . i V - ii, ii: (-3,2,0) e
V=00,-4,-2) a= u+0v= (-8,0,-4) AB
b= V-U=(3-3,=2)
Determinance
AB = 12i + M, 4 + 9 R
1B=(-P,-13,98)
3. Determine um vetor de modulo 2 ortogenal o Il =
(3,9,9) e = (0,1,1)
11x11 = 1(2+b2+c2) = 2 02+b2+c2=9 W. 11=0
(o, b, c): (s, 2, 0) = 0   a, b, c). (0, 111)-0
30, 21, 20=0 W.V=0 b+C=0
30+21+2c=0 C=-l
$\frac{3a+9b-2b-2}{3a=0} = \frac{J(a^2+b^2+c^2)=0}{J(o^2+(-c)^2+c^2)=2} = \frac{(1-\sqrt{2}+c^2)-2}{(1-\sqrt{2}+c^2)-2}$
1/0/0
$\frac{1(2c^2)}{2c^2} = 4$ $2c^2 = 4$ $2c^2 = 60$
- 12 2 1 J2 1 J2 1 J2
1x/1=(0 0+(1)=(0,-52,52)
×2=(2 22 C2)=(2 \\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \
5- Decermine II V, dada que 1 II x V = 12,   II = 13 e
3 é unitario.  u = 12  u.V =  u .V. Sen (a)
12=93. 1 sendal
Den (a) = 12
u. V=   u   .   v   . (os (a)
Sen 2(a) + (a) 2(a) = 7
$13.7.5 = 5$ $\frac{799}{169} + \frac{169}{169}$
(res (p) = 25 . 5
169 13



BCI = 12 41 +2° (Bose - 1 Duho 1/2 H: olkuro  BCI = 16 + 16
9- Calcular Z, salvendre - se que A(2,0,0), Blo, 2,0) eC(0,0,2). Dos virtues de um bisangulo de area 6.
$u = B - A - \{0, 0, 0\} - \{2, 0, 0\} = \{-2, 2, 0\}$ $V = c - A - \{0, 0, z\} - \{2, 0, 0\} = \{-2, 0, z\}$
$  \frac{1}{-2} \frac{1}{2} \frac$
$A =  u_x V /2 = 6$ $\sqrt{ z^2 + 16 }$
$\frac{(\lambda z^2 + 16) - 6}{2} = \frac{1}{2} =$
27=4, 2 = (-4)