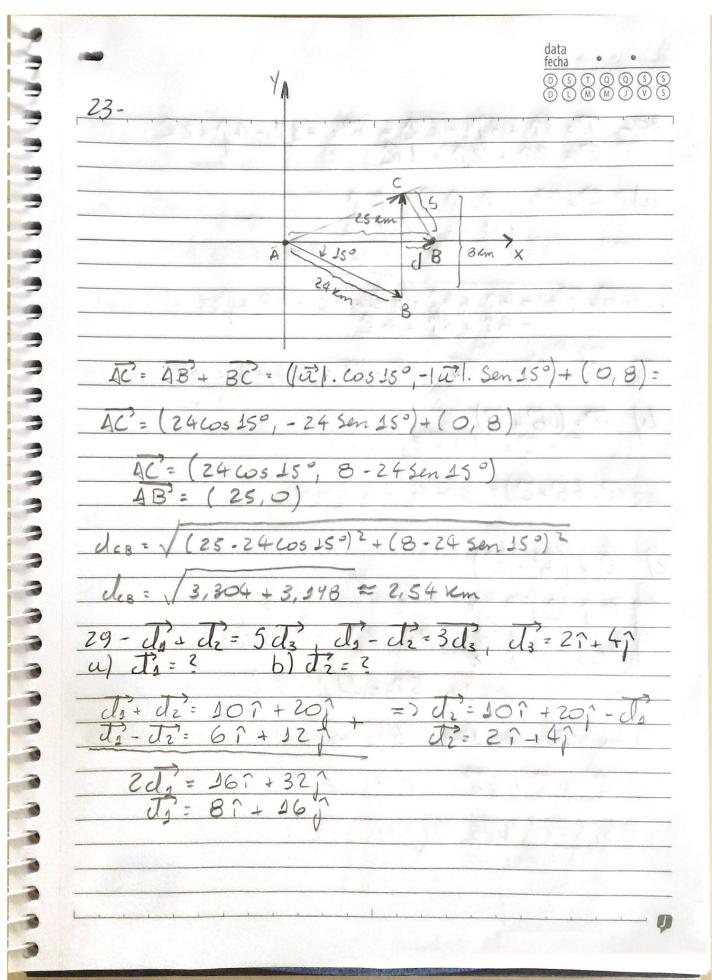
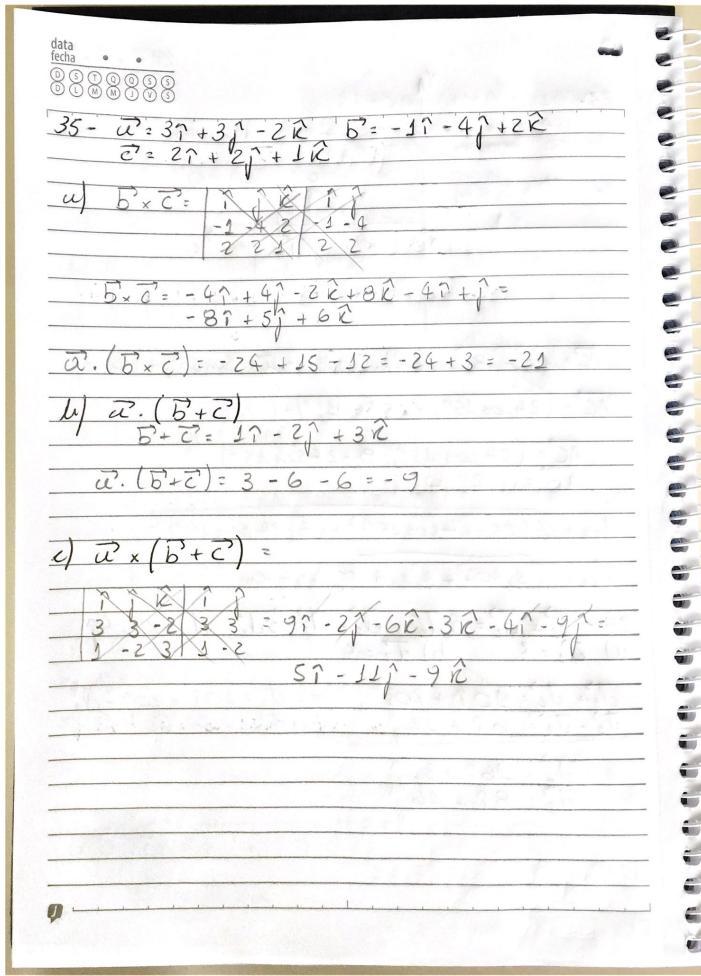
data 19 . 03 . 21 0 S T 0 0 S S 0 L M M J V S JORGE NAMI HARBES FISICA - 2021-1 - SISTEMAS DE INFOCMAÇÃO LISTA YETORES 3- 101 = 7,3 m 0: 250 - 180 = 70° ax = - 141. 6050 ux= -7,3. cos 70° ay = -7,3. Sen 70° 2500 Ux ≈ 2,5 m dy 26,85 m u) 5'= (3,7,3,4,3) 5 = (3,2)2+32+(4,3)2 123,69+9+18,44 3126,4m Não c) Sim d) Sim, buste partir de outre dirego nel rumo e dirego nel oposta, diferente. e) 3: 3,71+31+4,3R f) sagnir o vetor t'e depuis o vetor r'

data fecha 13- 2: (4,0m) 1-(3,0m) j+(1,0m) K 5= (-1,0m)]+ (1,0m)]+ (4,0m) R 4) a+ 6: (3,0m) 1-(2,0m) 1+(5,0m) 6 Wil-6: (5,0m)î-(4,0m)î-(3,0m)K ũ-b+2=0=>(ũ-5)=-c , loyo =-(5,0m)1+(4,0m)1+(3,0m)6 r= u+5 17-12/2/6/210m ax = u - Sen 01 = 10 . Sen 30° = 5 m uy= u- 6502 = 10. 60530° = 5.13 m bx = Q. Sen (02+02) = 10. Sen 13 30 = 5/2 m by = b. 606 (O2+O2)= 10.605 135°= -5.72 m P= Q+5= (5+5/2, 5/3-5/2 (5(1+JZ), 5(J3-JZ) ty Or = 8(13-12 8(1+12) O: arcty (5+5/2)2+(5,13-5/2)2= /145,21+2,52 1F/212,2m





37-12-4 181=3 121=5
u'=(4,0,0) $b'=(0,3,0)$ $C'=(4,3,0)$
4 8 0 4 5 = 12 R
0 3 0 0 3
b)
lu' = b' = 12 u.c. Orientuguo positivo coincidente com o eixo 3.
_ com o eixo z.
b) 2×2: 11
4 8 8 4 5 = 32 R
43043
\u \ \u
d) Orientura positiva windelente com o eixo 3
ay oriented to position a moveme com o elvo y
e 6 x 2 = 1 1 2 1 1
03003=-122
1939143
16 x 2 = 12 u.c.
f) Orientação regutira winadente como eixo q
3 et 3 e 3 e 45 e 5 e
The state of the s

data fecha • 0 3 7 0 0 3 5 0 1 M M J V 5
39-2-6=121.161.680 2=(3,3,3) B=(2, 4,3)
$\vec{u} \cdot \vec{b} = 6 + 3 + 9 = 18$ $ \vec{u} = \sqrt{3^2 + 3^2 + 3^2} = \sqrt{25} = 3\sqrt{3} \text{ u.c.}$
$ \vec{x} = \sqrt{3^2 + 3^2 + 3^2} = \sqrt{23} = 3\sqrt{3} \text{ u.c.}$ $ \vec{b} = \sqrt{2^2 + 3^2 + 3^2} = \sqrt{4 + 1 + 9} = \sqrt{14} \text{ u.c.}$
(050= 186 = 6 3,13,114 /92
D= uvc Cos (6) x 22,20°
$43 - \vec{u} = 3m \vec{b} = 4m \vec{c} = 10m \theta = 30^{\circ}$ $ \vec{u} = 3m \vec{b} = 0m$
a) bx = 4. cos 30° = 253 m d) by = 4. sen 30° = 2 m
e) cx: 10. Cos 120°=-5m
f $c_y = 10. Sen 120° = 5.13 m$ g $c' = pa' + qb'$ $p = 2$ $q = 2$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
P=-20

.

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