Cross Product

$$A^{3} \text{ or } V_{3}$$

$$\overrightarrow{a} = \langle a_{1}, a_{2}, a_{2} \rangle$$

$$\overrightarrow{b} = \langle b_{1}, b_{2}, b_{2} \rangle$$

$$= \begin{cases}
0 & 3 & k \\
a_{1} & a_{2} & a_{3} \\
b_{1} & b_{2} & b_{3}
\end{cases}$$

$$\overrightarrow{b} = \langle a_{1}, a_{2}, a_{3} \rangle$$

$$\overrightarrow{b} = \langle a_{1}, a_{2}, a_{3}, a_{3} \rangle$$

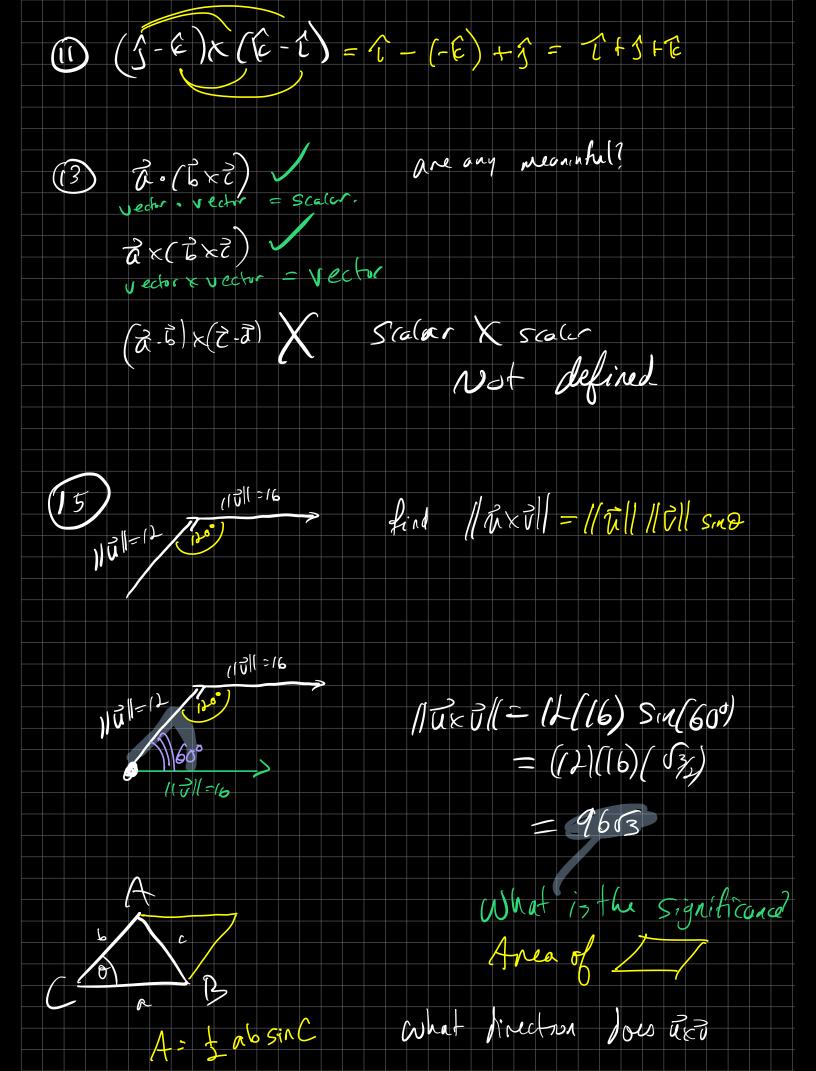
$$\overrightarrow{a} = \langle a_{1}, a_{2}, a_{3}, a_{3} \rangle$$

$$\overrightarrow{b} = \langle a_{1}, a_{2}, a_{3}, a_{3} \rangle$$

$$\overrightarrow{b} = \langle a_{1}, a_{2}, a_{3}, a_{3} \rangle$$

$$\overrightarrow{a} = \langle a_{1}, a_{2}, a_$$

Comment (~ 0)x(p) 7= 12,30> = 20+35 == 21,0,5>= 0+50 2x7 = (22+33) x (2+5) =(21)×1+(21)×(5€)+(35)×(1)+(35)×(5€) $\frac{2(0\times 2)+10(2\times 2)+3(3\times 2)+15(3\times 2)}{3}$ = -105-38 +158 Right = 151-101-36 Lord aul. 2x2=0 2116 2x2-3 R= tî+costs+sintê = 1 - Sints+cost& tî+costj+sntêxî-sintj+costê = -t smt & + t cost (-1) + cost (-1) + cost (1) + smt (1) - sin 2 (-1) 1 + (sint-tcost) 9 - (cost + tsint) [c



R = 21,2,3> (33) good eaough for us to find volume of parallelepiped To = 2-1,1,2> Z= [](1,4) h 8/11a/1 = 116x2/ $Cos\theta = \frac{h}{\|\vec{a}\|} \implies h = \|\vec{a}\|\cos\theta$ Volume = /[[bx2]//a/cos9/ = [2.(6xc)]

Scalar friple product. Now End volume of parallele uped formed by: R = 21(213) To = (-1,2) 6x2= (2,8,-3) 3. (b-2) = 2 + 16 + (-9) = (9) Z= [2,1,4) 18 (ow up: When is \$ \$ (6x2) = 0? abit meall on someplane.

point [1] Ello page.

