$$\vec{u} = \vec{\nabla} \times \vec{w}_c$$

$$\vec{\nabla} \times \vec{w}_c$$

$$\vec{\nabla} = (1,1,0)$$

$$\vec{\omega}_{c} = \frac{\vec{n}}{|\vec{n}|}$$
 ;  $\vec{n} = (10, 12, 18)$ 

Calcularenos - 
$$u$$
.  $t$  pero  $sim$  redorder:  $s$   $wc = \frac{n}{n!} = \frac{(10,12,18)}{\sqrt{10^2+12^2+18}}$ ; Sea:  $\sqrt{10^2+12^2+18^2} = a$ 

$$\overline{W}_{c} = \left(\frac{10}{\alpha}, \frac{12}{\alpha}, \frac{18}{\alpha}\right)$$

$$\vec{V} \times \vec{W}_{c} = \begin{vmatrix} 1 & 3 & 7 \\ 1 & 1 & 0 \\ 0 & 12 & 18 \\ 0 & 12 & 18 \\ 0 & 18 & 18 \end{vmatrix} = \left(\frac{13}{6}7 + 03 + \frac{12}{6}7\right) - \left(\frac{10}{6}7 + 04 + \frac{18}{6}3\right)$$

$$\vec{V} \times \vec{W}_{c} = \left(\frac{18}{6}7 - \frac{18}{6}7 + \frac{2}{6}7\right)$$

$$\overline{u} = (\frac{18}{a}, \frac{-18}{a}, \frac{2}{a}) = (\frac{18}{ab}, \frac{-18}{ab}, \frac{2}{ab})$$

Finalmoste:

$$-\overline{u} \cdot \overline{t} = -\left(\frac{18}{00}, \frac{-18}{00}, \frac{2}{00}\right) \cdot \left(10, 12, 18\right) = -\left[\frac{180}{00} - \frac{216}{00} + \frac{26}{00}\right]$$

$$-\overline{u} \cdot \overline{t} = 0$$
; Begins do medendos