EOP2 - MCR - 3A - 23\$2 | • Ecuación de relacidad relativa; $\vec{V}_B = \vec{V}_c + \vec{W}_{gc} \times \vec{r}_{B/c}$ · Nectores de velverda y possessón:

- $\vec{v}_{g} = (-v_{g}) m/s$; $\vec{v}_{c} = (8\cos 45^{\circ}\hat{c} 8\sec 45^{\circ}\hat{j}) = (5.657\hat{c} 5.657\hat{j}) m/s$ ω̄_{8c} = (ω_{8c} k) rad/s; τ̄_{8/c} = (23) m
- · Softitugendo en la ecuación de velocidad:

$$(-N_{B}\hat{j}) = (5.65+\hat{c} - 5.65+\hat{j}) + (W_{Bc}\hat{k}) \times (2\hat{j})$$

 $(-N_{B}\hat{j}) = (5.65+\hat{c} - 5.65+\hat{j}) + (-2W_{Bc}\hat{i})$

· Ecuaciony escalares :

$$V_B = -5.657$$
 -- (ii)

$$0 = 5.657 - 2 \omega_{BC} - - (i)$$
 De (i) $\rightarrow \omega_{BC} = 2.83 \text{ rad/s}$
 $- v_{B} = -5.657$ - - (ii) De (ii) $\rightarrow v_{B} = 5.657 \text{ m/s}$

· Analitando AB:

$$\vec{\nabla}_{B} = \vec{\omega}_{AB} \times \vec{r}_{B/A} = \begin{vmatrix} \hat{i} & \hat{j} & \hat{k} \\ 0 & 0 & -\omega_{AB} \\ 2 & 0 & 0 \end{vmatrix} = (-2\omega_{AB}\hat{j})$$

Legultados