

dynamics explanation

1 question A

Coriolis acceleration(A_c) is defined as $\vec{A}_c = 2 * \omega * \vec{V}_{rel}$
by using the cross-product we can find that

$$\omega * \vec{V}_{rel} = 2 * [0, 0, 4]^T \times [0, -5, 0] \quad (1)$$

$$\vec{A}_c = 40i \quad (2)$$