

dynamics explanation

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1 question A

$$\vec{V}_b = \vec{V}_a + \omega * r_b \vec{a}$$

note: the x-component of b is zero as it moves through the guide

$$0 = \omega * 3/4 * \sin(30) + 3 \quad (1)$$

$$\omega = 8s^{-1} \quad (2)$$