

dynamics explanation

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## 1 question A

$$\vec{V}_{by} = \vec{V}_{ay} + (\omega * r_{b/a})_y$$

by using the cross-product we can find that

$$(\omega * r_{b/a})_y = -3/4 * \cos(30) * 8 = -3 * \sqrt{3} \quad (1)$$

$$\vec{V}_{ay} = 0 \quad (2)$$

$$\vec{V}_{by} = -3 * \sqrt{3} \quad (3)$$