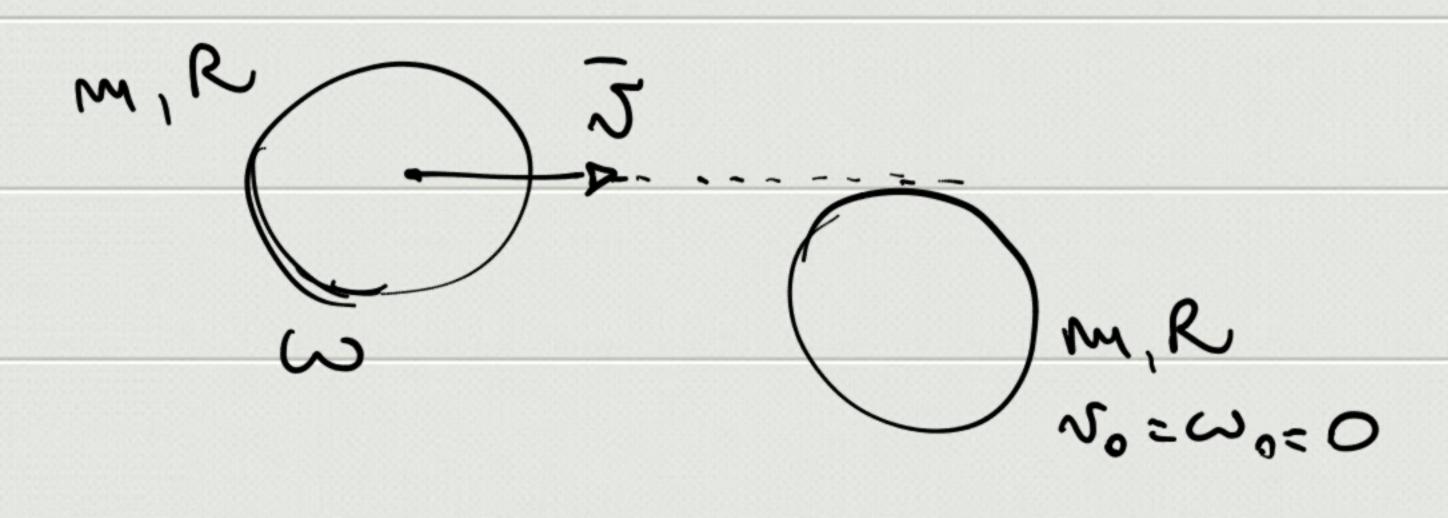
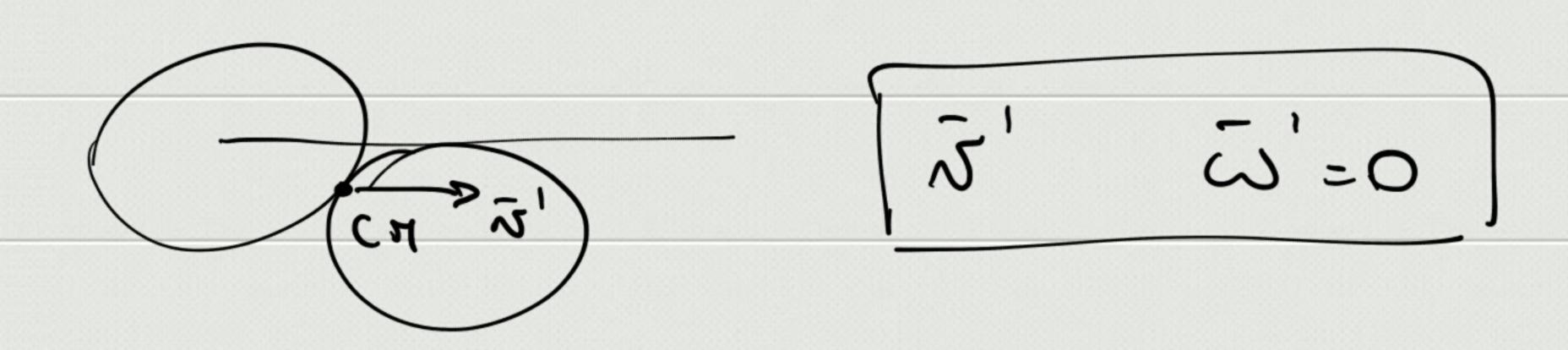
$$I_{cm} = \left(\frac{1}{12} me^2 + m d^2\right) + m y_{cm}^2$$

$$\Rightarrow \omega' = \frac{6m\pi}{(4m+\pi)\ell}$$





$$P = \cot \Rightarrow m\vec{s} = 2m\vec{s}'$$

$$\Rightarrow \vec{s}' = \frac{\vec{s}}{2}$$

$$\frac{1}{L} = cost$$

$$\frac{1}{c_{H}} = cost$$

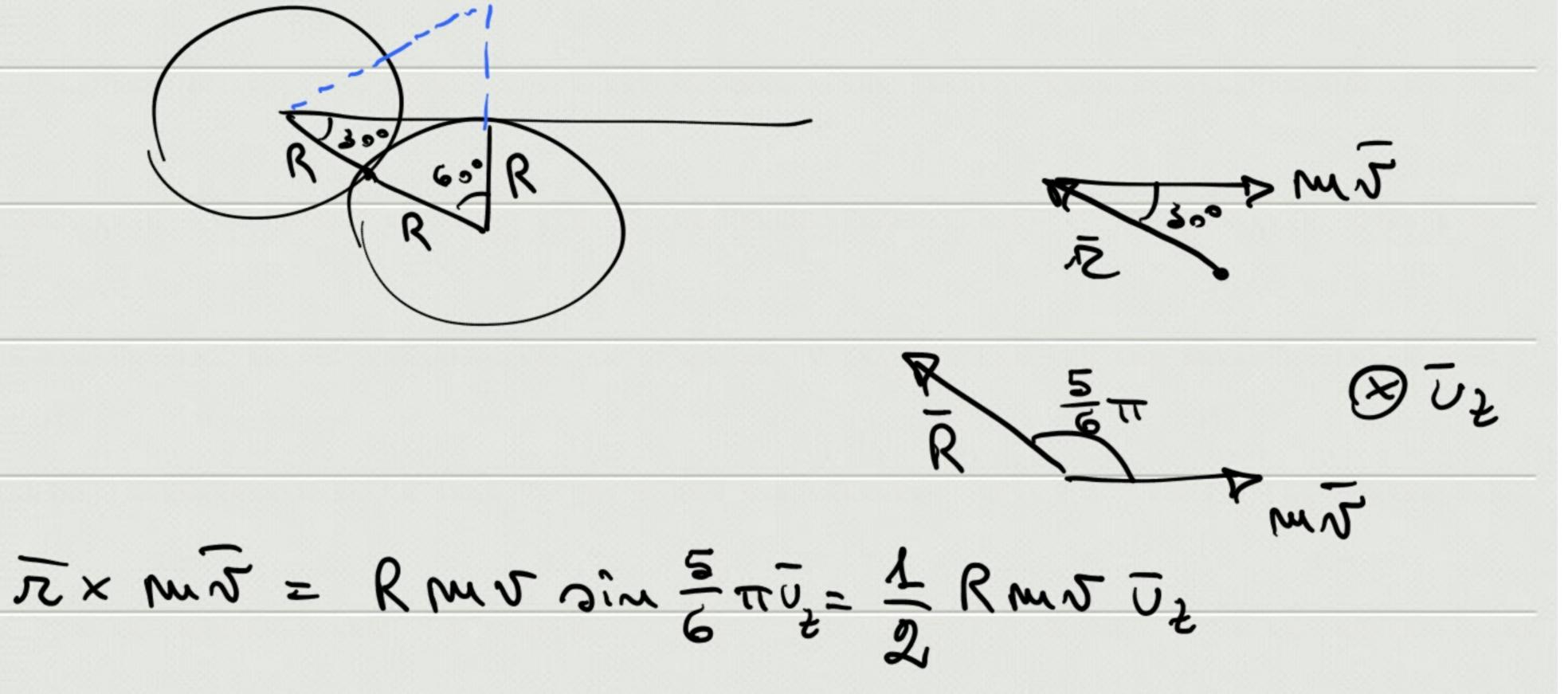
$$\frac{1}{c_{H}} = cost$$

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$$\bar{L}_{o} = \bar{\pi} \times m\bar{\sigma}$$

$$\bar{L}_{o} = \bar{L}_{\bar{\omega}}$$



$$\Rightarrow \overline{L}_{polo} = \frac{1}{2} mR^{2} \overline{\omega} + \frac{1}{2} Rm \overline{v}_{2} = 0$$

$$\Rightarrow \overline{\omega} = -\frac{\sqrt{v}}{R} \overline{v}_{2} \qquad \boxed{\sqrt{2} \omega R} \qquad \boxed{0}$$