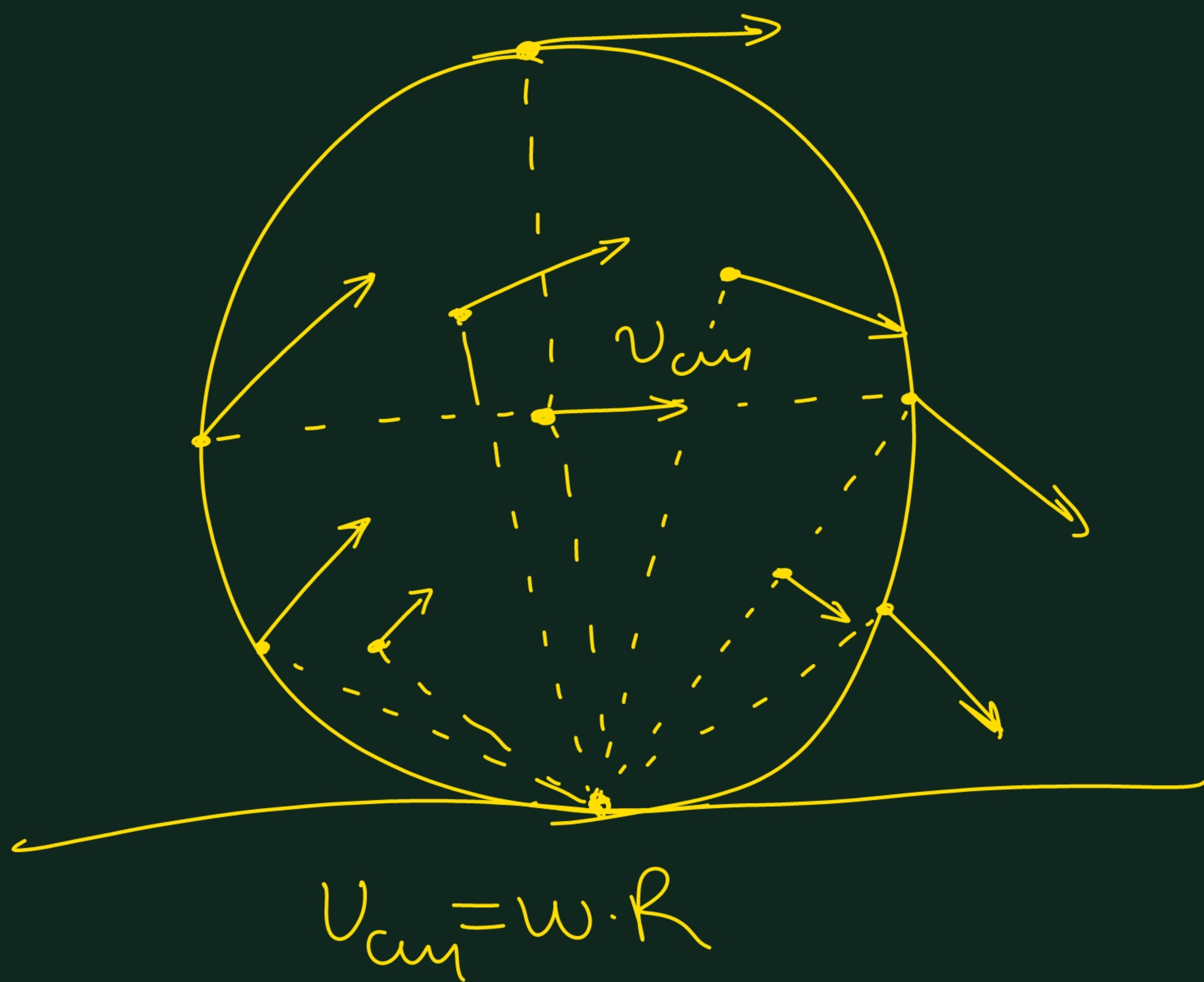


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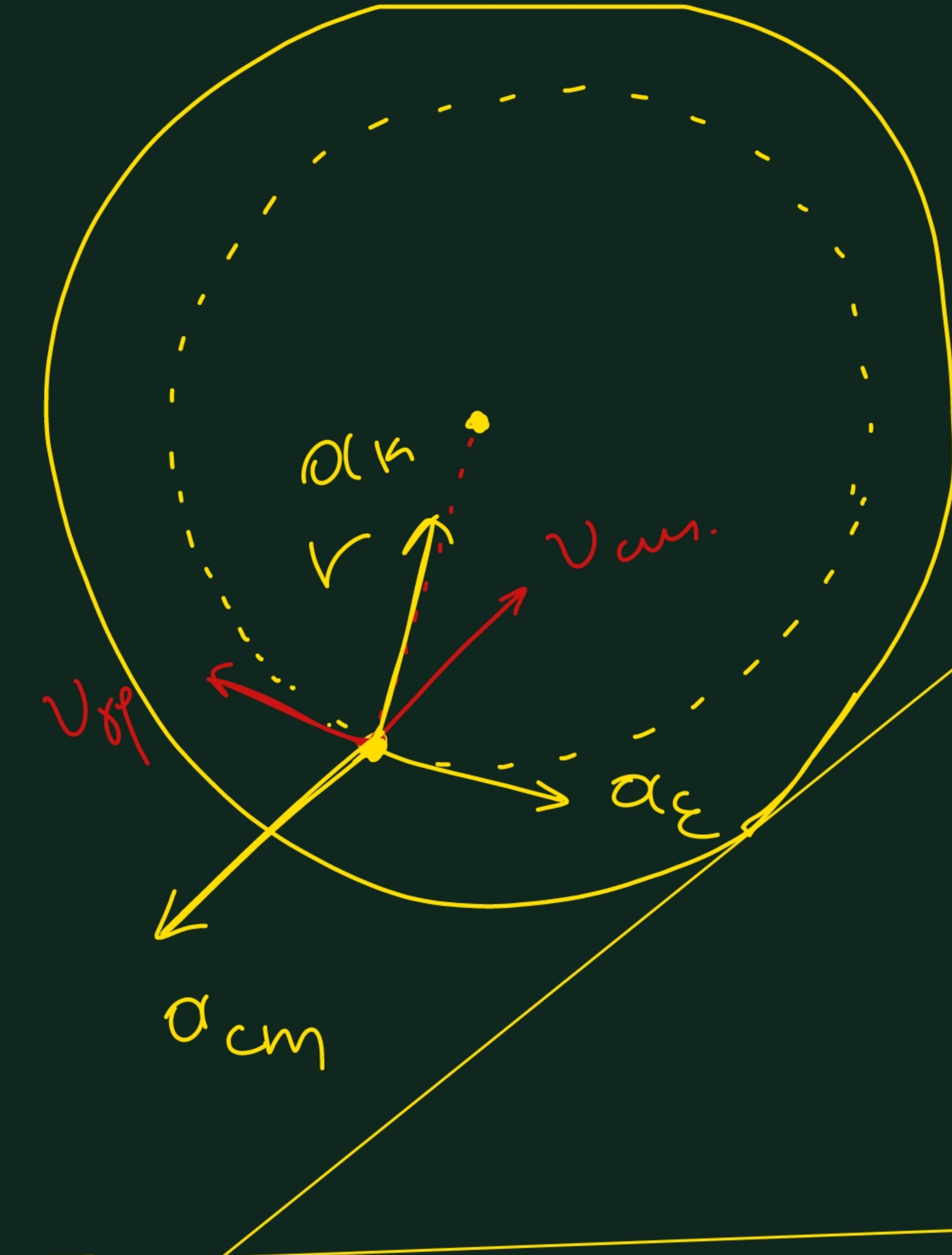
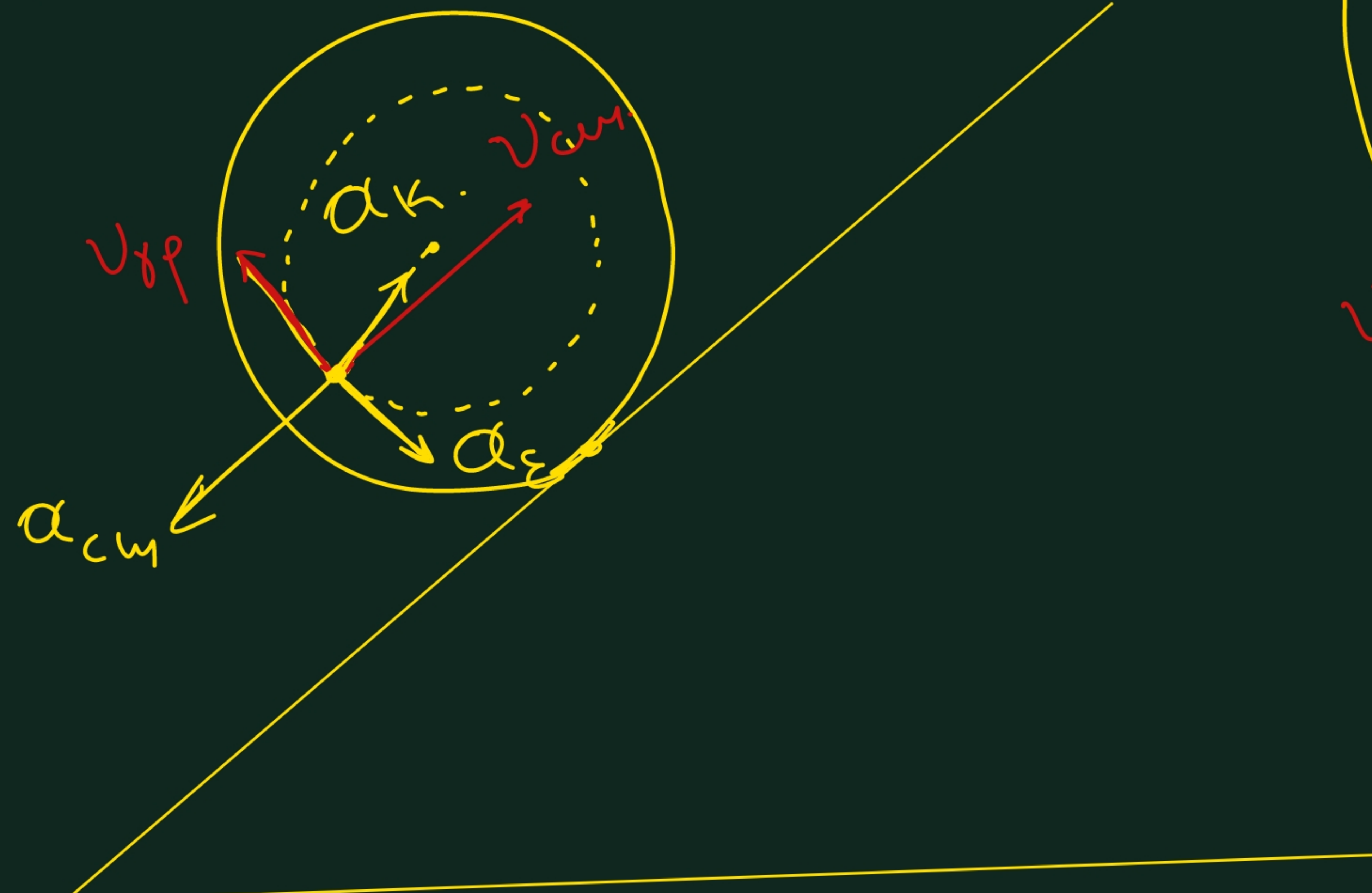
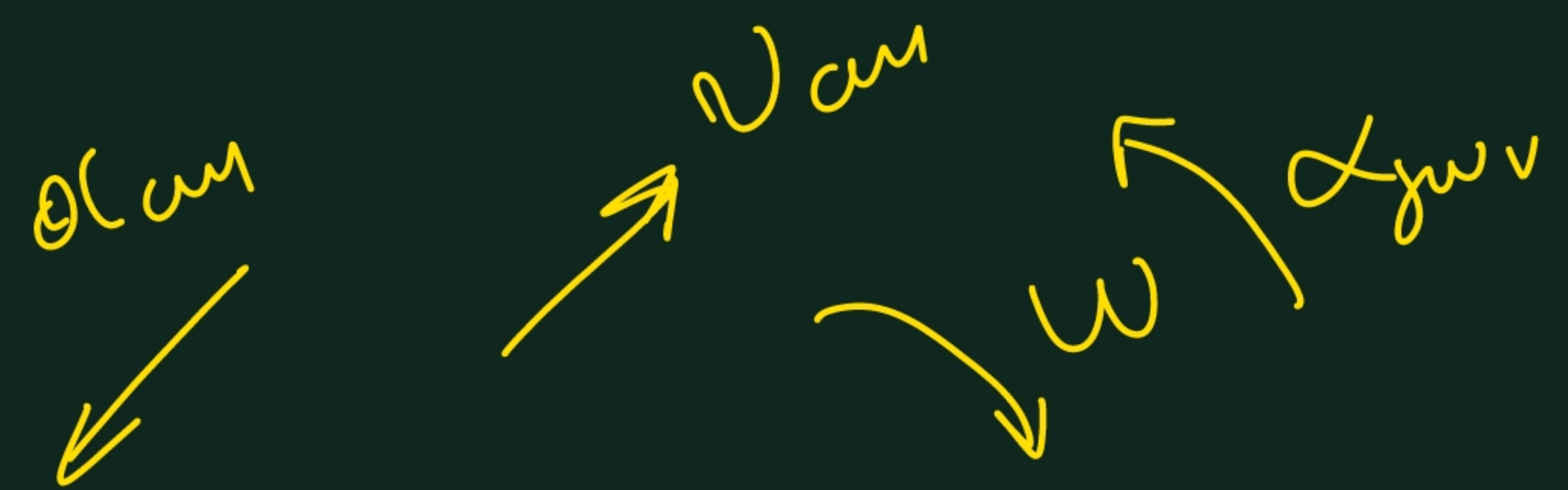


$$\Delta x = v_o \cdot \Delta t \pm \frac{1}{2} a \cdot \Delta t^2$$

$$\Delta \theta = \omega_o \cdot \Delta t \pm \frac{1}{2} \alpha_{\text{ang}} \cdot \Delta t^2$$

$$a = a_{\text{cm}}$$

$$\alpha_{\text{ang}} = \frac{\Delta \omega}{\Delta t} = \frac{d\omega}{dt}$$



$\vec{\alpha}_\varepsilon \uparrow \downarrow \vec{v}_{cp}$
 επιβεβαιώνει
 την υπόθεση
 είναι επι-
 βραδυνόμενη

$\alpha_\varepsilon = \alpha_{\gamma\omega} \cdot r$ (επιτρίχια
επιβράδυνση)

$\alpha_{cm} = \alpha_{\gamma\omega} R$ (ω έχει
υπόλοιπο
χωρίς ολίσθηση)

$\alpha_{\kappa} = \omega^2 \cdot r$ (κεντρομόλος
επιτάχυνση)