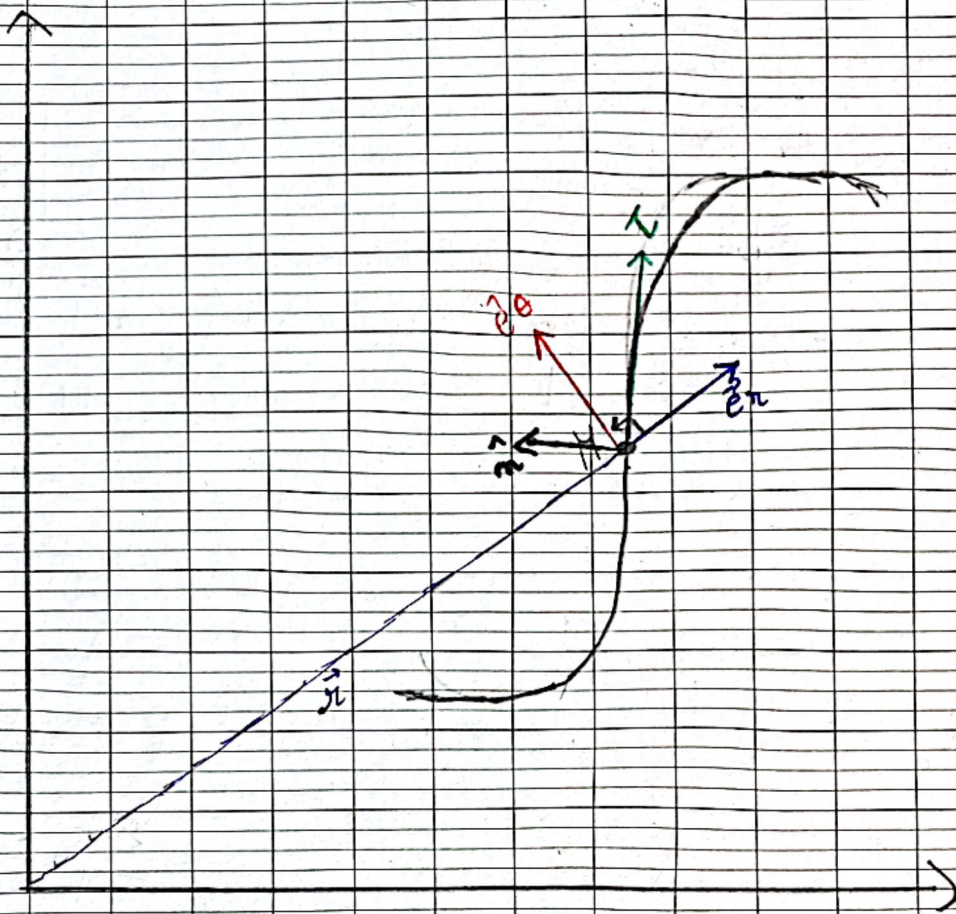


Equation of motion in polar coordinates :



\hat{e}_r directed towards with r } \hat{e}_r radial unit vector
 \hat{e}_θ \perp \hat{e}_r (always perpendicular) } \hat{e}_θ tangential unit vector
 \hat{n} \perp T (directed toward with center of curve) } \hat{n} normal unit vector
 T tangent in the direction of motion } T tangent vector
 $\hat{n} = -\hat{e}_r$ (not always correct)
 in the case of a circular motion $\hat{n} = -\hat{e}_r$