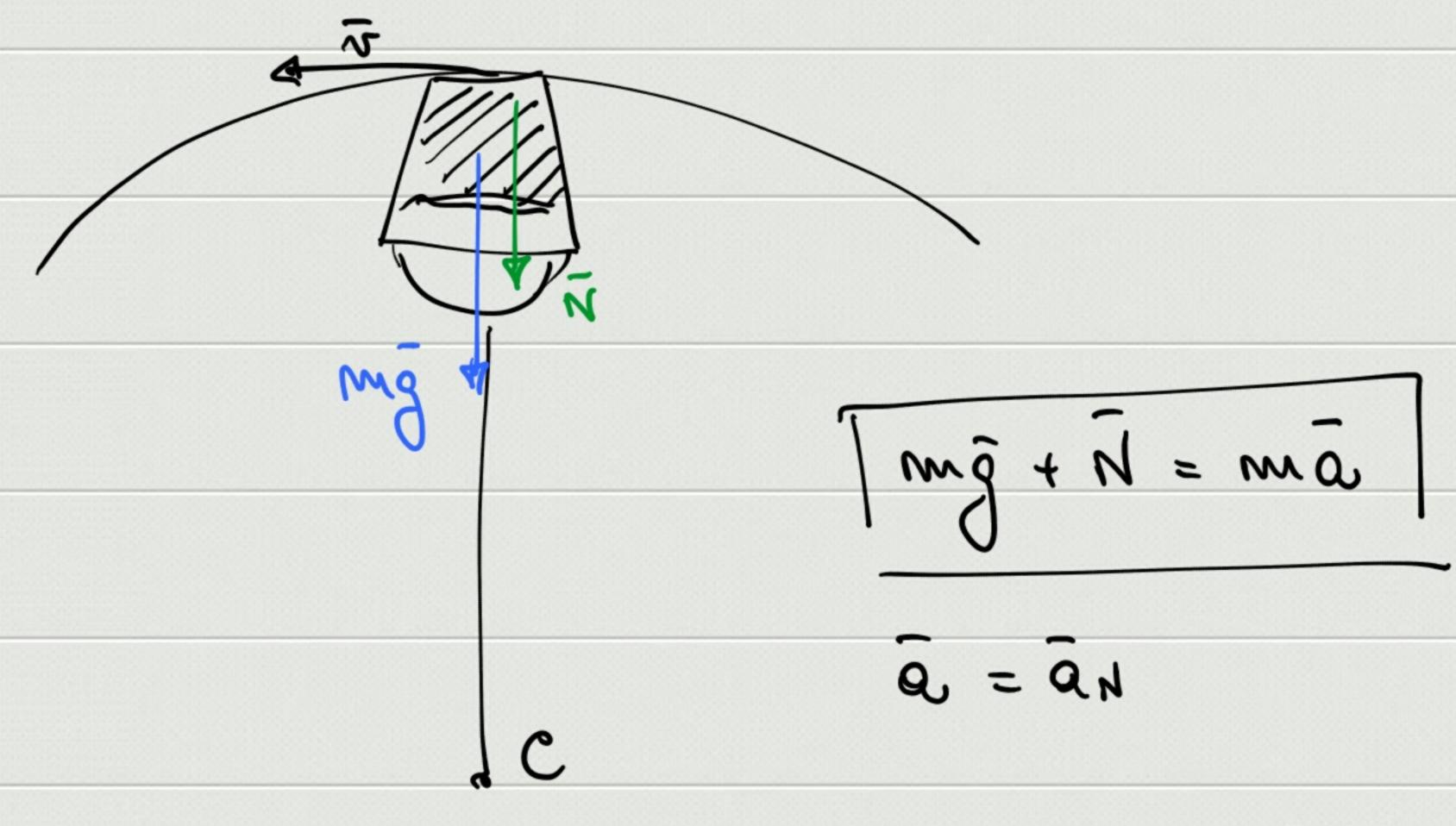
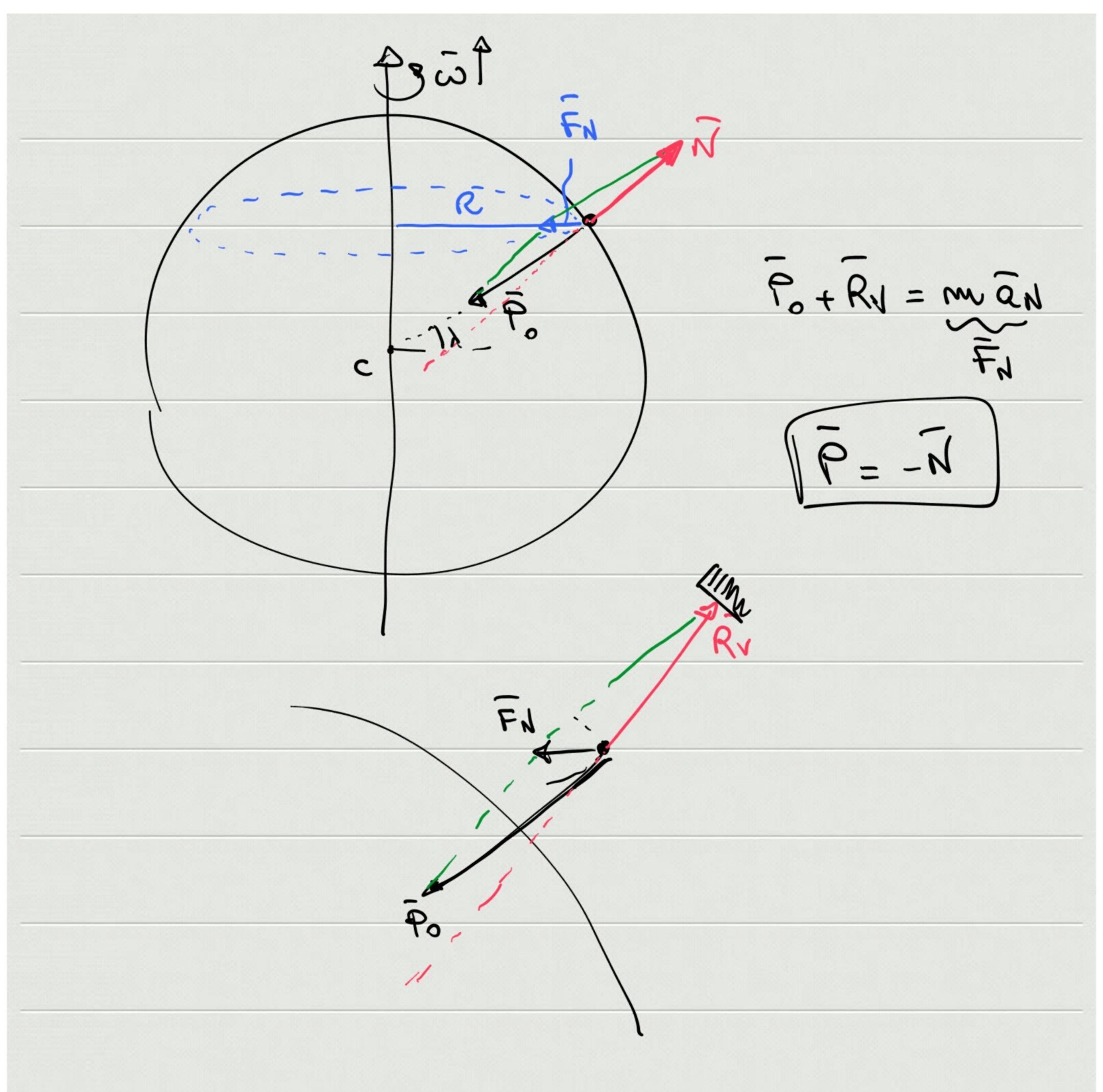
$$\overline{F} = m \hat{a} = m \hat{a}_{T} + m \hat{a}_{N} = m \frac{dv}{dt} \hat{v}_{T} + m \frac{r^{2}}{R} \hat{v}_{T}$$

$$\overline{F}_{N}$$

$$\overline{F}_{N$$



$$mg+N=m\frac{r^2}{R} \Rightarrow N=m\left(\frac{R^2}{R^2}-g\right)>0$$



$$QN = \omega^2 R = \frac{2\pi}{24h} R_T \cosh \simeq 0.034 \cosh m/s^2$$