

$$a_c = ? \quad r = 0,5 \text{ m}$$

$$a_c = \frac{v^2}{r} = \omega^2 r$$

$$v = \frac{\Delta s}{\Delta t}$$

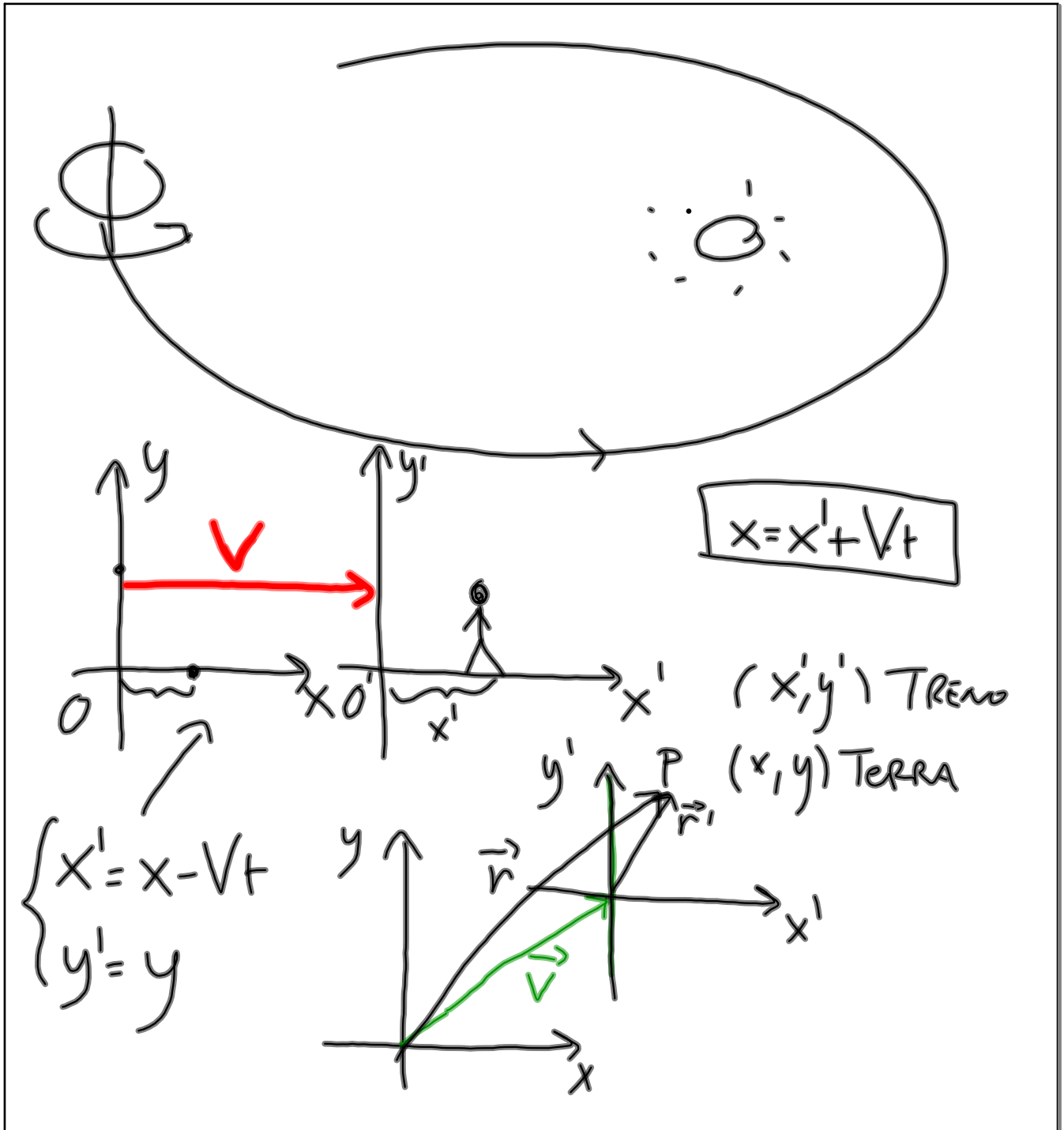
$$\omega = \frac{\Delta \alpha}{\Delta t} = \frac{2\pi}{T} = \frac{4\pi}{2T}$$

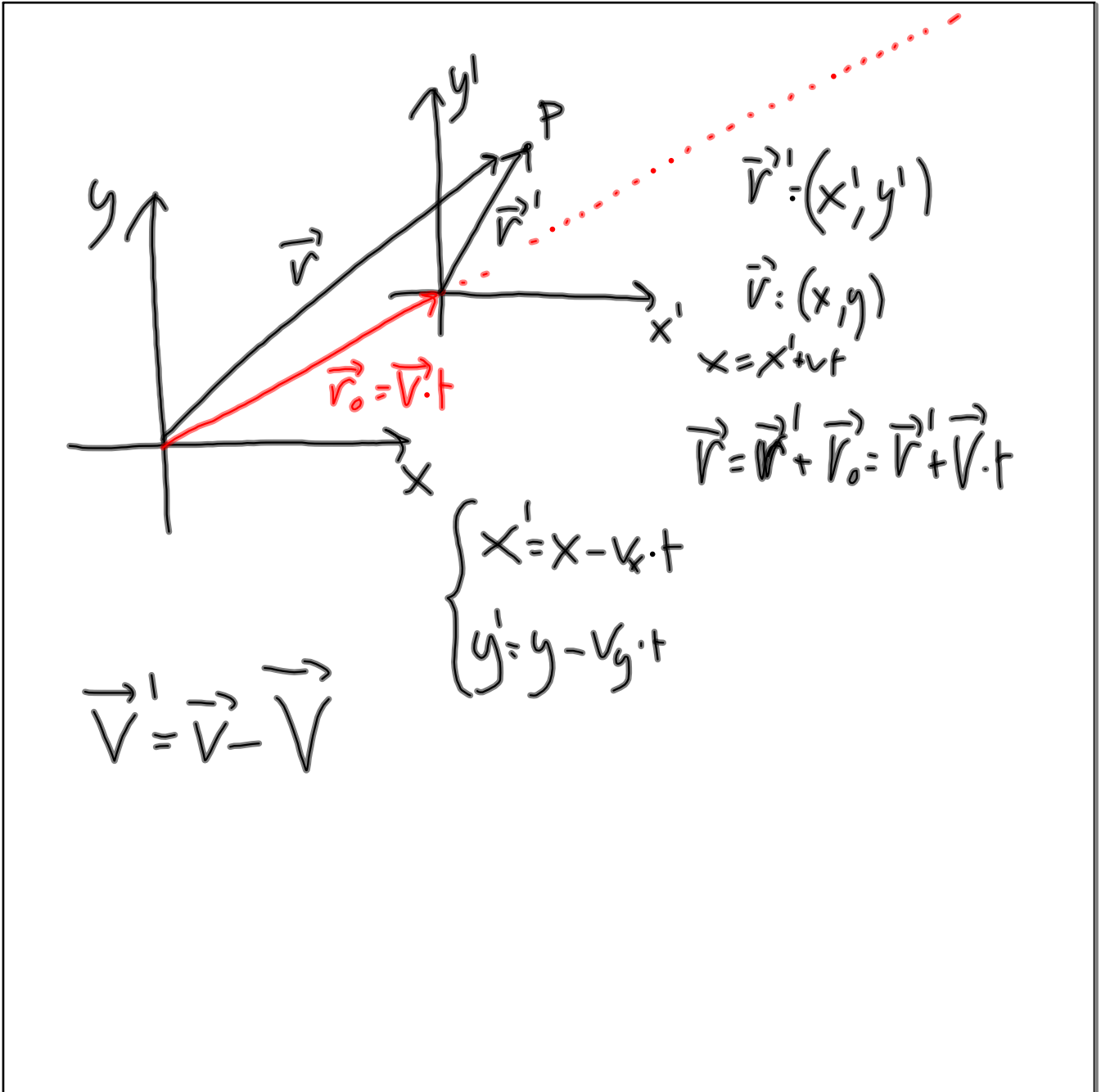
$$\omega = \frac{2\pi}{T}$$

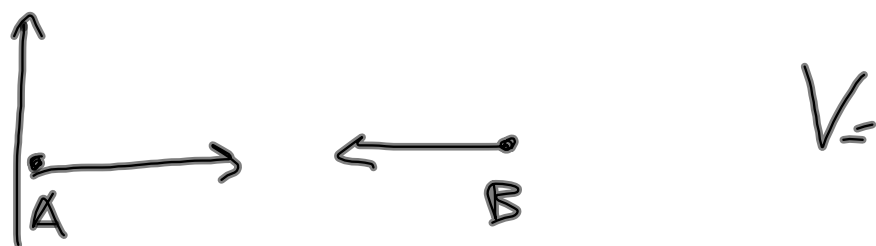
$$\omega = \frac{20}{60 \text{ s}} \cdot (2\pi) = 40\pi \frac{\text{rad}}{\text{s}}$$

$$a_c = (40\pi \text{ s}^{-1})^2 \cdot 0,5 \text{ m} =$$

$$= 1600\pi^2 \cdot 0,5 = 800\pi^2 \frac{\text{m}}{\text{s}^2}$$







$V_A = 100 \text{ km/h}$  Rispetto suolo

$V_B' = 150 \text{ km/h}$  Rispetto A  $V$

$$V_B' = V_B - V$$