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$$h = 600 \text{ km}$$

Tella  $R_T = 6.34 \cdot 10^3 \text{ km}$ 

$$M_T \cdot 5.93 \cdot 10^{24} \text{ kg}$$

1)  $V_S = ?$ 

2)  $w_S = ?$ 

3)  $T_S = ?$ 

2)  $w_S = ?$ 

3)  $T_S = ?$ 

1)  $V_S = R_S$ 

$$w_S = V_S$$

$$w_S = \frac{GM_T}{h + R_T}$$

2)  $w_S R_S = V_S$ 

$$w_S = \frac{GM_T}{h + R_T}$$

3)  $T_S = \frac{2\pi}{w_S}$ 

$$m_S = \frac{2\pi}{(4.5 \times 10^{35} \text{ kg})}$$

$$m_S = \frac{1.13 \cdot 10^3 \text{ kg}}{(5.10^{35} \text{ kg})}$$

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Riezzo un piano cortesiono in modo de i vettori sieno più facili da maripolare Faccio tutto in componenti e quindi la somme tre vettori la faccio comp. per componente m3 F35 F13 M, E,3 = (E,3;0)  $\overline{F}_{2,3} = (F_{2,3,x}, F_{2,3,y}) = (F_{2,3} \cdot \cos x) F_{2,3} \cdot \sin x)$ Faccio somma componente por componente  $\overline{F}_{TOT,3} = (F_{2,3} + F_{2,3} \cos \alpha ; F_{2,3} \sin \alpha)$ Dots de le comporanti sono perpendicaloni faccio terreme GF (di Pitagore) e posso trovare il modulo  $F_{TOT,3} = (F_{13} + F_{13} \cos \alpha)^2 + (F_{23} \sin \alpha)^2 \approx$ ~ Frot, 3 = 5,83. 1024 N