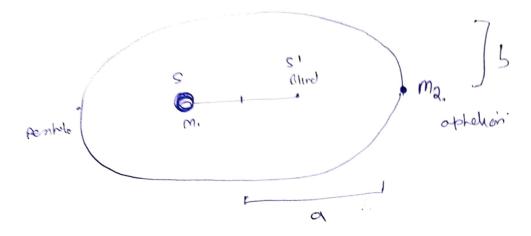
Model

Robbi India

Kepters Low

) ostal Law

ellepin.



a) Dyda momendum Conserved. Cogal ales in egal intends of hime

3) T 2 x a3

a = semmegar oxus.

T= perioded serut in lighted orbid.

$$\rho^2 = \frac{4\pi^2}{(n(m)+1)^2} \approx \alpha^3$$

Dot suis

Mon of Cesh = 
$$5.97 \times 10^{24} 19$$
  
My of Solution =  $1.02 \times 10^{1} 19$   
 $C = 6.37 \times 10^{6} \text{ m}$ 

10 period of Soffellium

-) 
$$\beta = \frac{4\pi^2 \times (6.37 \times 16^{\frac{1}{2}})^3}{6.64 \times 10^{\frac{1}{2}}}$$
 $\rho^2 = \frac{4\pi^2 \times (6.37 \times 16^{\frac{1}{2}})^3}{6.64 \times 10^{\frac{1}{2}}}$ 
 $\rho^2 = 256.258 \times 10^{\frac{1}{2}}$ 
 $\rho = 3062.19$ 

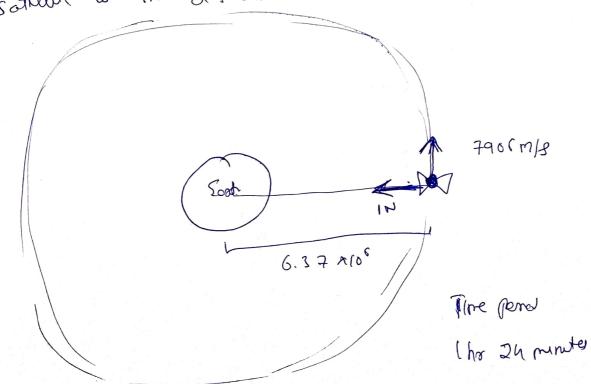
or (har, 24 minty)

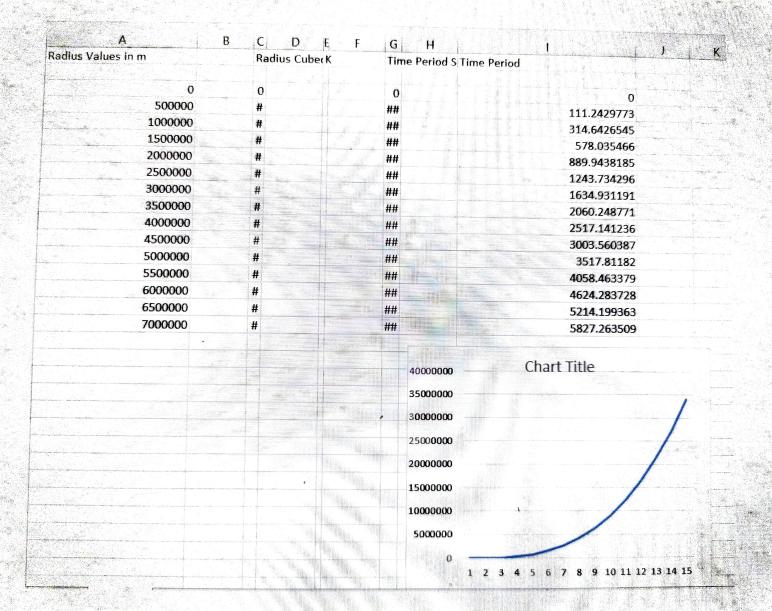
03. Force characterishe

= to Heaton I newton force

This force Should be equal to The contespet from

The satellite is in a stable orbit.





Conclusion:

K = 9.9 x 1614

Sque son sides..

$$T^2 = \left(\frac{4n^2}{am}\right)p^3$$

We observe that as we income the bodies Then The time taken for the setellite to complete its sevolton also in Grane

> penal sque & Radus cused P2 x R3