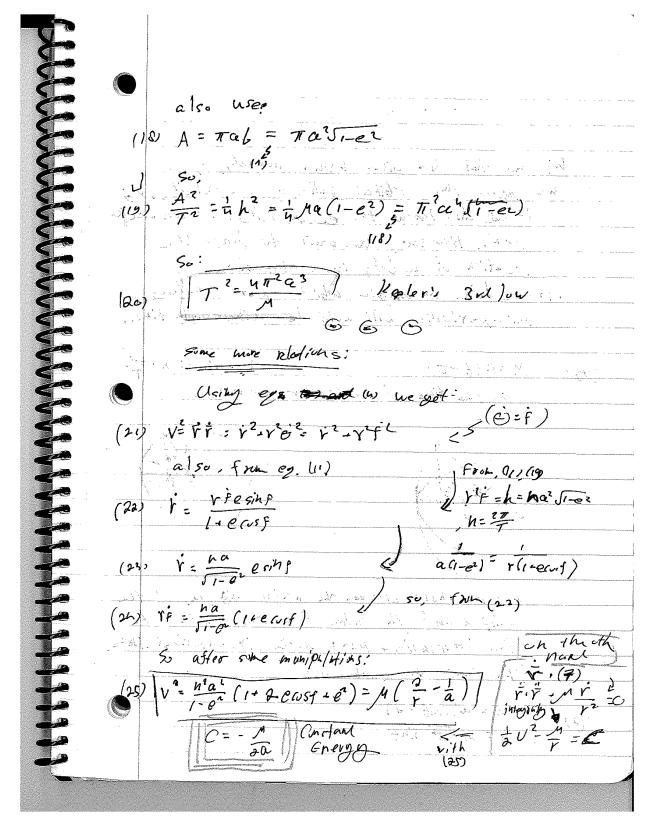


Thus, the B, P componder withe: 19) $\ddot{r} - r\ddot{G} = -\frac{M}{r}$: \ddot{r} \ddot{G} $(Node: \dot{G} = \ddot{f})$ The sulution to eq. (9) is: Where $\frac{a(1-e^2)}{1+e\cos(e-\overline{\omega})} = \frac{a(1-e^2)}{1+e\cos s}$ Where $\frac{a(1-e^2)}{1+e\cos s} = \frac{a(1-e^2)}{1+e\cos s}$ (10) N= Y'G = OLF!

To Cartesian coordinate: X=YCost Descript The area of the clies are the Replex's to this you! the area sweet out bythe radius SA = ir (r+dr) sinse ~ i rise 15) dh : 2 r do = 2h Also remember that in order to devile eg. 11 $\frac{\left| h^2 - M\alpha(1-e^2) \right|}{\int_{T^2}^{2\pi} \frac{1}{4} M\alpha(1-e^2)}, \quad So,$ (16) (12)

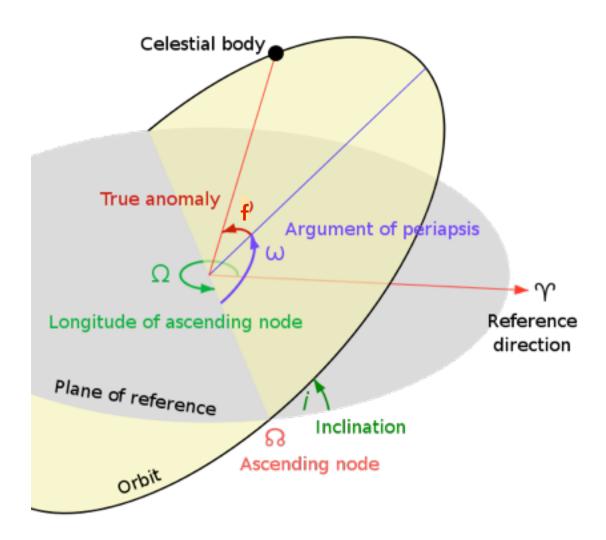


The mean Anomaly and The ecceptive andraly We foul that for given true anomals f, we know the cristal radius, r, and relocity, v; if we also know the eccentricity and senince for axis. However, we want to know the) scation of a body in a given time. First me define an agrigle which goart from loing 21 - periodic will also be liker with time The mean anomaly: M

remember: h= 27
T M=h(t-T) (26) z- the time of pericenter pussage The occentric anomaly E - the angla between the major axis, a, at the ellipse and the radius from the conter to the intersation point on-le circum scribul circle Thansforming to Cartesian: (07) \(\text{y = a(rist = e)} \)

frum (07): (28) V=a(1-easE) (20) Cost = CSE - 8 1-ease Than after some maniphtations we get (30) Ean of = 14e fan & However in order to Find the location of a lody are ked to have a relative lotwer & and M. So, From ey (25) and (24) and some maniphlations wa Can write: (31) dr = ha Jae - (r-a)2 We'll use og. 60 r-a=-eruse aul get: $\frac{dE}{dt} = \frac{n}{1 - eGH}$ and the solution is: The left hand ride is the man animal (2.28) M= &-esite Hopler's oghation

A useful figure with the important angles.



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