Orbits of Artificial
Sah Mike. Critical Velocity (Vc) (R+h) Centripetal Force = Chravitational

Fc = Fg

(RTh) = (RTh)<sup>2</sup>

(Rth)<sup>2</sup> Vc2 = GM (R+L)

Based on Shape

Description

Based on Alignment

Description

At an angle to equation

Elliptical

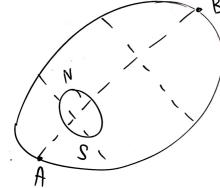
Type of Orbits

(h= 180 km to 2000 km)

( T= 90 mins)

2) Medium Earth Orbit (h= 2000 km to 35,780 km)

B (T= 2 to 24 hrs)



Type of Orbits

(h > 35780 km)

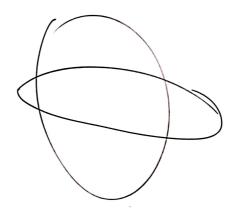
(3) High Earth Orbit (h > 35780 km)

heosynchronous

T= 24 hvs

Cheostationary

T= 24 hrs



BS,780 km)

Espape velocity (verc)  $V_c = \sqrt{\frac{2Gr7}{R}}$ Verc = 11.18 km/s  $\approx 11.2 \text{ km/s}$