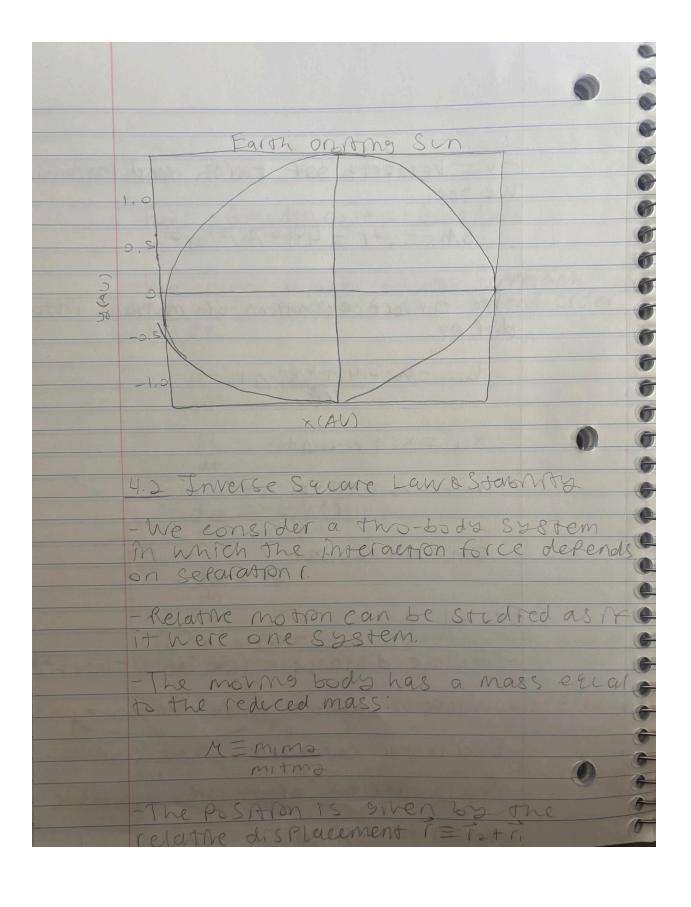
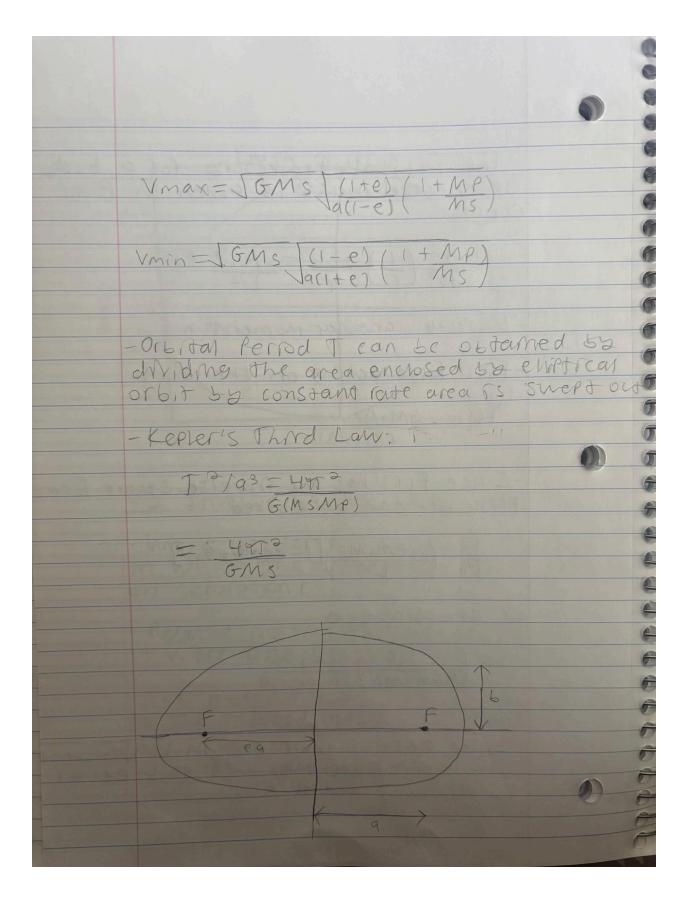


-V= resourts of Earth and rearranging We set! GMS=V2r=4472 AU3/212; - We convert excappons of motions into dAF. eq. VXITISVXI-4172XIA7 Xiti=XitVxitiAt V2111 = V21 - 477 221 17 Sin=zit Vain At ススススクラクラン Ex. 4.1 - Calculate distance 1: from Sun Ti=(n+++1) - Complete VXIH=VX; - 4th 2x1 At and V2(+1= Ever-cromer: call xitilizin comy unit fuzion - Record new Pos. or Prot as available Repeat for desircel number



- The orbital trasectors for a body of reduced mass is given in Poter Coords. do (1) +1 = -MP FU) L=Mrst: anovar momentum - Fir); force acting on the bods FUN=-GMSMP -Shee Fin has the inverse square form F(1) × 1/12 can be solved. [- (MGMsMP) [1-ecos(++0)] or choosing to (= (L2) 1-ecost - Since another momentum L. Thomsman is conserved, we may set this exim to Meninuman and to Memasumm.



- From 4.3: Hapothetram eliptran 0000 -ASBis closer 62 2 orbits: 8=2,00 2 XAU 2 4.3 Precession of the Permetron (Mercury) - We have noted that most flaness have orbits their are very nearly crechan The Planets whose orbits deviate from circular are Mercurs and Pluto. - The Precession of Pershellon (Point). The mas: is approx. 866 arcseconds per centure;

- The precession due to seneral relativity can be calculated analytically, although 1 17 13 compreaded -All we have to do is simulate the orbital motion ismo force law Predicted by Deneral relativity and measure rate of Precession of orbit. - Force law: For GMSMM (1+a) - We need to know mitral wordstrong and then we get: - GMsMm + I MMV2 = - GMsMm + I MMV3

