Suppose that the position of Sun is Rixed and earth is arbiting around it. F-GMeMs 8 Fx =-FGSO = max = mox Fy=FSint = may = mey  $\Rightarrow \begin{cases} \frac{\partial^2 x}{\partial t^2} - GiM_5 Gs\theta \\ \frac{\partial^2 x}{\partial t^2} - \frac{\partial^2 x}{\partial t^2} \end{cases}$ de - Gms sing Now we want to furn dimensions into those anes Hat I) Large/small number doesn't appear The length - time - mass are comparable with Charateristic length, time, and mass of

