

 $=) H = \frac{P_r^2}{m_n} + \frac{P_0^2}{m_r^2} - \frac{P_r^2}{2m_n} + \frac{P_0^2}{2m_n^2} + \frac{6m_nM_r}{r} + \frac{6m_nM_r}{r}$   $= \frac{P_r}{m} + \frac{P_0^2}{m_r^2} - \frac{P_r^2}{2m_n^2} + \frac{P_0^2}{2m_n^2} + \frac{6m_nM_r}{r} + \frac{6m_nM_r}{r}$ =) H = Pr + Pp - 6 MNMT - 6 MNML / Gr\_= Vr2 + d2 - 2r(+)d(65/4-4) c) r = 2H = 2Pr = Pr 2mp = m. d= Of 2PA = PA 2mnr2 mnr2 ? - 2H - - [2Pd + 6 MNMr + 1 6 MNML (2r - 2d Cos(o-wt)) = 10 = 6mmM - (r - dcos(p-wt)) Po = + 20 = - [ + 16mnM (2rd Sen (0-wt))] f) Si:  $\tilde{r} = \frac{c}{d}$ ,  $\phi = \phi$ ,  $\tilde{r} = \frac{P_r}{md}$ ,  $\tilde{P}_0 = \frac{P_0}{md^2}$ Pr= md = (mdPp)2 - 6mr [mn + m, mn (rd - d6)6-wt) = 100 (mad) - 6m-04.0 - 1 + 4 (F - cos(0-wt)) => Pr = Po - 6m7 - 1/2+ 4/3 (F-Cos(4-wt))] /

>md2p = - 6 mm, rdSin(p-wt) = -6 mm (d-wt) > and Pp = -6 arm ~ Sin (0 + w+) (2) = - 6 mL ~ Sin (0 - wt) ~ \*Cos(0)-iCos(0)+\*Sen(0)-iSen(0) = I (Cos & Cos & + Sen & Sen &) = 7 Cos(0-0) = To Cos (0-0)  $\widehat{P}_{\phi}^{0} = \frac{P_{\phi}}{md^{2}} = \frac{c^{2}}{md^{2}} \frac{d\phi}{dt} = \frac{c^{2}}{c^{2}} \frac{d}{dt} \left( \operatorname{aidan}(\frac{y}{x}) \right)$ = ~ 1 ( \frac{1}{2} \cdot \fra = \(\frac{7}{\chi^2 + \text{y}^2} \left( \frac{\text{y}}{\chi} - \frac{\text{y}}{\chi^2} \chi \right)  $=\frac{\tilde{c}^2}{\tilde{c}^2}\cdot(\times\dot{y}-\dot{y}\dot{x})=$ = T2 (x.Cosp i Seno + rSeno i Coso) コアの=でいいい(O-O)/1 = ~ (Sin(0-0)) = ~ (dSin(0-0)