$PA \qquad \varphi = \int_{\frac{1}{R}}^{n} \frac{du}{\sqrt{A^{2} - (u - B)^{2}}} = \int_{\frac{1}{R} - B}^{u - B} \frac{ds}{\sqrt{A^{2} - S^{2}}}$ 此流流有: ٤١. $= \arcsin \frac{9}{A} \Big|_{\frac{1}{R}-B}^{N-R} = \arcsin \frac{N-B}{A} - \mathcal{G},$ $\mathcal{G}_{s} = \arcsin \left(\frac{1}{R}-B\right)A$ $E = \frac{mc^2}{2} \left(\left(\frac{du}{d\phi} \right)^2 + u^2 \right) + \sqrt{c} \frac{1}{u} \right)$ $\int_{A}^{A} dt = \frac{1}{u^{2}} \Rightarrow 0.$ $\frac{\partial}{\partial x} \left(\frac{\partial}{\partial x} + \frac{\partial}{\partial x} \right) = \frac{\partial}{\partial x} \qquad U = A\cos\left(\frac{\partial}{\partial x} + \frac{\partial}{\partial x} - \frac{\lambda}{2}\right) + B$ 新道記 $F = \frac{1}{B + A\cos\left(\frac{\partial}{\partial x} + \frac{\lambda}{2} - \frac{\lambda}{2}\right)}$ をかけり けいか=-GMmn. p有 du - /mc (È+GMmu) - u' $O(\phi) = \sqrt{\frac{\frac{\lambda}{mc^2}(\frac{\lambda}{k} + GMmn) - u^2}}$ $C = R \cdot \frac{1}{\sqrt{2}} V = R \cdot \frac{1}{\sqrt{2}} \sqrt{\frac{GM}{4R}} = \sqrt{\frac{GMR}{8}}$ $\dot{E} = \frac{1}{2}mV^2 - \frac{GMm}{R} = \frac{GMm}{8R} - \frac{GMm}{R} = -\frac{7GMm}{8R}$ B= Cx = 8 26 MAD TA $d - \phi_0 = \int_{\frac{1}{2}}^{\frac{1}{2}} \frac{du}{\sqrt{-(u - \frac{GM}{C^2})^2}} + (\frac{GM}{C^2})^2 + \frac{\lambda \bar{E}}{MC^2}$ A= 5/2 PunA r= 1/8 + 5/2 (6+9-2) 拉己. $r = \frac{\frac{1}{1}}{1 + \frac{51^{2}}{2}} \cos(\phi + \frac{7}{9}, -\frac{7}{2})$ $\sqrt{2} A^{2} = \frac{G^{2}M^{2}}{C^{2}} + \frac{2\tilde{E}}{mc^{2}} \qquad B = \frac{GM}{C^{2}}$ 其中yo = -arcsin -7 化物的
1- R
1- 8-sing-7cosq

$$V_{Ii} = \sqrt{\frac{QM}{Rs}}$$

$$V_3 = \sqrt{(3-2\sqrt{2})\frac{GM_s}{R_s} + \frac{2GM_e}{R_e}} = V_1 = \sqrt{(3-2\sqrt{2})\frac{GM_s}{R_s}}$$

$$E = \frac{1}{2} m(4-2\sqrt{2}) \frac{M_SQ}{R_S} - \frac{GM_{SM}}{R_S} = (1-\sqrt{2}) \frac{GM_{SM}}{R_S}$$

$$B = \frac{GM_s}{C^2} = \frac{1}{R_s} \qquad A = \sqrt{B^2 + \frac{2\overline{c}}{mC^2}} = \sqrt{\frac{1}{R_s^2} + \frac{(2-1/2)m\frac{GM_s}{R_s^2}}{mGM_sR_s}} = \sqrt{\frac{1}{R_s^2} + \frac{(2-1/2)m\frac{GM_s}{R_s^2}}{mGM_sR_s}}} = \sqrt{\frac{1}{R_s^2} + \frac{(2-1/2)m\frac{GM_s}{R_s^2}}{mGM_sR_s}}} = \sqrt{\frac{1}{R_s^2} + \frac{(2-1/2)m\frac{GM_s}{R_s^2}}}{mGM_sR_s}} = \sqrt{\frac{1}{R_s^2} + \frac{(2-1/2)m\frac{GM_s}{R_s^2}}}{mGM_sR_s}} = \sqrt{\frac{1}{R_s^2} + \frac{(2-1/2)m\frac{GM_s}{R_s^2}}}} = \sqrt{\frac{1}{R_s^2} + \frac{(2-1/2)m\frac{GM_s}{R_s^2}}}} = \sqrt{\frac{1}{R_s^2} + \frac{(2-1/2)m\frac{GM_s}{R_s^2}}}} = \sqrt{\frac{1}{R_s^2} + \frac{(2-1/2)m\frac{GM_s}{R_s^2}}}} = \sqrt{\frac{1}{R_s^2} + \frac{(2-1/2)m\frac{GM_s}{R_s^2}}}}$$

科(1+(12-1) (1+(

这飞出的孩子。我的地面不为方义在

Un. 32 roit & Ux. 13/A

$$=\sum_{i} M\left(V_{i}^{2}+V_{i}^{2}+2V_{i}V_{i}-V_{i}^{2}\right)$$

$$\beta = \frac{CM}{C^2} = \frac{V_1^2 R}{\left(V_{11} + V_1\right)^2 R^2} = \frac{1}{R} \left(\frac{V_1}{V_{11} + V_2}\right)^2$$

$$A = B_1 + \frac{5}{16} = \frac{1}{16} \left(\frac{1}{16} \frac{1}$$

$$A = \frac{1}{R(V_1 + V_{11})} \sqrt{V_1^2 + V_{11}^2 + 2V_1 V_1} - V_1^2 + \frac{V_1^4}{(V_1 + V_{11})^2}$$

$$= \frac{(V_{11}+V_{11})^{2}+(V_{11}+V_{11})^{2}}{(V_{11}+V_{11})^{2}} \frac{1}{1} ((V_{11}+V_{11})^{2}(V_{12}+V_{11})^{2}+2V_{11}V_{11}-V_{12})+V_{14}}$$

超少东水。即由工业时、活切的历度发射。

1314. 新说代数.

股急地讨到力压,发展是动能的 C太阳系下).

$$\frac{1}{2}mV_{5}^{2}=\hat{E}_{0}+\frac{GM_{5}M}{R} \rightarrow V_{7}^{2}=\frac{\lambda^{E_{0}}}{m}+\frac{2GM_{5}}{R}$$

Mar. Basisipa Frata Vnin=Vo-Vo

Mp. resolissifiitàiti

$$V = \sqrt{\frac{2}{\sqrt{min^2 + \frac{2GM\xi}{r}}}} = \sqrt{\frac{\sqrt{\frac{CMs}{R}} - \sqrt{\frac{2E_v}{m}} + \frac{2GMs}{R}}{\sqrt{\frac{2GMs}{r}}}} + \frac{2GMs}{r}$$

$$= \sqrt{\left(\frac{GMs}{R} + \left(\frac{2GMs}{R} - \frac{2o}{17}\frac{GMs}{R}\right) - 2\sqrt{\frac{2 - \frac{2o}{17}}{R}}\right)\frac{CM}{R}} + \frac{2GMt}{r}$$

$$=\sqrt{\frac{GMs}{R}}(1+2-\frac{20}{17}-2\sqrt{12-\frac{20}{17}})+\frac{2GME}{r}$$

代人指抗的も Uf=11.512 km/s

Ab/2 8 3. 0. φ. x.

大砂差割43: φ=0.

$$\begin{cases} x^2 \hat{o} = C. \Rightarrow \frac{d}{dt} = \frac{d}{dt} = \frac{d}{dt} = \frac{d}{dt} = \frac{C.}{x^2} \end{cases}$$

他是多级, Imx3+ zmx3+ zmx202=C

$$\frac{1}{4} \frac{1}{2} \frac{1}{4} \frac{1}$$

$$\frac{1}{2}\left(M+m\right)\frac{C_0^2}{X^4}\left(\frac{dx}{dx}\right)^2 = C_1^2\frac{1}{2}m\frac{C_0^2}{X^2} \longrightarrow \left(\frac{dx}{dx}\right)^2 = \frac{2X^4}{C_0^2Cm^4M}\left(C_1 - \frac{1}{2}m\frac{C_0^2}{X^2}\right)$$

$$\frac{dx}{dx} = \frac{x^2}{C_0} \sqrt{\frac{1}{m+m} \left(c_1 - \frac{1}{2} \frac{mC_0^2}{x^2} \right)} = -\frac{dx}{\sqrt{\frac{1}{m+m} \left(c_1 - \frac{1}{2} \frac{mC_0^2}{x^2} \right)}} = \frac{dx}{\sqrt{\frac{1}{m+m} \left(c_1 - \frac{1}{2} \frac{mC_0^2}{x^2} \right)}} = \frac{dx}{\sqrt{\frac{1}{m+m} \left(c_1 - \frac{1}{2} \frac{mC_0^2}{x^2} \right)}}$$

$$\frac{d \frac{1}{2}}{\sqrt{\frac{1}{m_{MN}}(C_{1} - \frac{1}{2}\frac{mC_{2}}{N}^{2})}} - \frac{d\theta}{C_{0}} \qquad PP \qquad \frac{d \frac{1}{2}}{\sqrt{1 - \frac{1}{2}\frac{mC_{0}}{N^{2}}}} = -\sqrt{\frac{2C_{1}}{m_{1}}} \frac{d\theta}{C_{0}}$$

$$\frac{du}{\sqrt{1 - 4u^{2}}} = -\frac{1}{2} \frac{d\theta}{C_{1}} \qquad A = \frac{1}{2} \frac{mC_{0}}{C_{1}} \qquad k = \sqrt{\frac{2C_{1}}{m_{1}}} \frac{1}{m_{1}} C_{0}$$

$$\frac{du}{\sqrt{1 - 2}\frac{mC_{0}}{C_{1}}} = -\frac{1}{2} \frac{d\theta}{C_{1}} \qquad A = \frac{1}{2} \frac{mC_{0}}{C_{1}} \qquad k = \sqrt{\frac{2C_{1}}{m_{1}}} \frac{1}{m_{1}} C_{0}$$

$$\frac{du}{\sqrt{1 - 2}\frac{mC_{0}}{C_{1}}} = -\frac{1}{2} \frac{d\theta}{m_{1}} \qquad \theta + \theta_{0} \qquad \theta +$$

St.
$$Eeff = V(r) + \frac{J^{2}}{2mr^{2}}$$
 $m\ddot{r} = -\frac{3Eeff}{3r} = -\frac{k}{r^{2}}e^{-\frac{J^{2}}{4r}}$

Pp $m\ddot{\xi} + \frac{J^{2}}{m(r_{0} + \xi)^{3}} = F(r_{0} + F(r_{0}))$
 $m\ddot{\xi} + \frac{J^{2}}{mr_{0}^{3}}(1 - \frac{3F}{r_{0}^{2}}) = F(r_{0}) + F(r_{0})\epsilon$
 $m\ddot{\xi} - (\frac{3J^{2}}{mr_{0}^{4}} + F(r_{0}))\epsilon = 0$
 $3F(r_{0}) + r_{0}F(r_{0}) < 0$ At $3\xi = 0$.

$$P_{p} = -\frac{3k}{r_{s}^{2}}e^{-\frac{r_{s}}{\alpha}} + r_{s}\left(\frac{2k}{r_{s}^{2}}e^{-\frac{r_{s}}{\alpha}} - \frac{k}{r_{s}^{2}}e^{-\frac{r_{s}}{\alpha}} + \frac{k}{\Lambda r_{s}}e^{-\frac{r_{s}}{\alpha}} + \frac{k}{\Lambda r_{s}}e^{-\frac{r_{s}}{\alpha}} \le 0$$

$$P_{p} = -\frac{3k}{r_{s}^{2}}e^{-\frac{r_{s}}{\alpha}} + \frac{2k}{r_{s}^{2}}e^{-\frac{r_{s}}{\alpha}} + \frac{k}{\Lambda r_{s}}e^{-\frac{r_{s}}{\alpha}} \le 0$$

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$$P_{p} = -\frac{2k}{r_{s}^{2}}e^{-\frac{r_{s}}{\alpha}} + \frac{2k}{r_{s}^{2}}e^{-\frac{r_{s}}{\alpha}} = 0$$

$$P_{p} = -\frac{2k}{r_{s}^{2}}e^{-\frac{r_{s}}{\alpha}} + \frac{2k}{r_{s}^{2}}e^{-\frac{r_{s}^{2}}e^{-\frac{r_{s}^{2}}{\alpha}} = 0$$

$$P_{p} = -\frac{2k}{r_{s}^{2}}e^{-\frac{r_{s}^{2}}e^{-\frac{r_{s}^{2}}e^{-\frac{r_{s}^{2}}e^{-\frac{r_{s}^{2}}e^{-\frac{r_{s}^{2}}e^{-\frac{r_{s}^{2}}e^{-\frac{r_{s}^{2}}e^{-\frac{r_{s}^{2}}e^{-\frac{r_$$

श्व. १७३३€ व

即对指面对抗b= a/1/2+42 其中以为事:清洁过度。