Godneme Passismono- Ixola B copepineckion Roopginomax.  $\frac{ds}{at} + \frac{1}{2m} \left( \left( \frac{\partial s}{\partial r} \right)^2 + \frac{1}{r^2 \sin^2 \theta} \left( \frac{\partial s}{\partial \phi} \right)^2 + \frac{1}{r^2} \left( \frac{\partial s}{\partial \theta} \right)^2 \right) - \Gamma(r) = 0$ 35 + 2m( 2 (35)2) - [(192+92+93)=0, [(1)-8. (P) dr Полька интеграл уровнений двининия в серерических координатах; S= ait+ arp+ ei S \2m (r(r)-ai)-\frac{a\_2^2}{r^2}dr+ \ell\_2 \sqrt{\alpha\_3^2-\frac{a\_2^2}{\sqrt{2}\alpha}}d\tagente 7. IkoSu:  $\det\left(\frac{\partial^2 S}{\partial q, \partial a_k}\right) |_{x=1}^{\infty} \neq 0$ ,  $(t, q, a) \in D$  $\frac{\partial S}{\partial r} = e_1 \cdot \int \frac{2m \cdot \frac{dI(r)}{dr} + \frac{2\alpha_3^2}{r^3}}{2\sqrt{2m(r(r)-\alpha_1)-\frac{\alpha_3^2}{r^3}}} dr = e_1 \cdot \int \frac{m \frac{dI(r)}{dr} + \frac{\alpha_3^2}{r^3}}{\sqrt{2m(r(r)-\alpha_1)-\frac{\alpha_3^2}{r^3}}} dr$  $\frac{\partial S}{\partial a} = \Omega_{1}$  $\frac{\partial S}{\partial \theta} = e_2 \int \frac{-\frac{a_1^2(-2) \cos \theta}{\sin^3 \theta}}{2\sqrt{a_3^2 - \frac{a_2^2}{a_3^2}}} d\theta = e_2 \int \frac{a_1^2 \cos \theta}{\sin^3 \theta \sqrt{a_3^2 - \frac{a_2^2}{\sin^3 \theta}}} d\theta$  $\frac{3}{3}\frac{2}{3}a_{1} = \frac{2}{3}\frac{2m(L(u)-a_{1})-\frac{L_{2}}{3}}{m}\frac{dv}{3}$ 35 ar = 0 35 2003 = 81 ] -as (2m (4r3 (Fir)-a) + orir) - 2ras2 (2m (F(r)-a1) ry - r2 as) = 30301=0  $\frac{\partial S}{\partial \theta \partial \alpha_1} = e_2 \int \frac{\omega s \theta}{\sin^3 \theta} \frac{-\alpha_2}{\sin^3 \theta} d\theta$ 300 dar 1 38 = e2 \ \frac{\cus \theta}{\sin^3 \theta} \frac{\alpha\_3^2 - \alpha\_1^2}{\lambda\_3^2 - \alpha\_1^2} \d\theta 35 = 0

39301 = 0