$$\int \frac{d\theta}{d\theta} \int \frac$$

(2) 舒星的椭圆轨道运动,设运的周期为下.

$$T = \frac{1}{\tau} \int_{0}^{\tau} \frac{1}{2} m v^{2} dt = \frac{1}{\tau} \int_{0}^{\tau} \frac{1}{2} m v^{2} dv = \frac{1}{\tau} \int_{0}^{\tau} \frac{1}{2} m v^{2} dv$$

$$= \frac{1}{\tau} \int_{0}^{\tau} \frac{1}{2} m d (v^{2} \cdot r^{2}) - \frac{1}{\tau} \int_{0}^{\tau} \frac{1}{2} m r^{2} dv = -\frac{1}{\tau} \int_{0}^{\tau} \frac{1}{\tau} r^{2} dv$$

$$= \frac{1}{\tau} \int_{0}^{\tau} \frac{1}{\tau} m v^{2} dt = -\frac{1}{\tau} \int_{0}^{\tau} \frac{1}{\tau} r^{2} dt$$

$$= -\frac{1}{\tau} \int_{0}^{\tau} \frac{1}{\tau} \left( -\frac{4 \kappa m}{\tau} r^{2} + \frac{1}{\tau} \right) dt$$

$$= -\frac{1}{\tau} \int_{0}^{\tau} \left( -\frac{4 \kappa m}{\tau} r^{2} + \frac{1}{\tau} \right) dt$$

$$= -\frac{1}{\tau} \int_{0}^{\tau} \left( -\frac{4 \kappa m}{\tau} r^{2} + \frac{1}{\tau} \right) dt$$

$$= -\frac{1}{\tau} \int_{0}^{\tau} \left( -\frac{4 \kappa m}{\tau} r^{2} + \frac{1}{\tau} \right) dt$$