$$\begin{array}{l}
\sqrt{6a} \\
C = \int_{0}^{2\pi} \sqrt{dS^{2}} \\
= \int_{0}^{2\pi} \sqrt{dS^{2}} \\
= \int_{0}^{2\pi} \sqrt{g_{tt} dt^{2} + g_{\phi\phi} d\phi^{2}} \\
dt = \sqrt{\frac{r^{3}}{m} \cdot d\phi} \\
= \int_{0}^{2\pi} \sqrt{g_{tt} \frac{r^{3}}{m} + g_{\phi\phi}} d\phi^{2} \\
= \int_{0}^{2\pi} \sqrt{g_{tt} \frac{r^{3}}{m} + g_{\phi\phi}} d\phi^{2} \\
= \int_{0}^{2\pi} \sqrt{g_{tt} \frac{r^{3}}{m} + g_{\phi\phi}} d\phi^{2} \\
= 2\pi \sqrt{\frac{4}{5} \cdot /o^{3} \cdot m^{2} + |o^{3}m^{2}|^{2}}
\end{array}$$

$$= 2T \sqrt{\frac{4}{5} \cdot /o^2 \cdot M^2 + 10^2 M^2}$$

$$= 2T M \cdot \sqrt{1000 \cdot -\frac{4}{5} + 100}$$

$$=2077M$$

$$f = 2\pi \cdot \sqrt{\frac{r^3}{m}} = 20\sqrt{10} \pi M$$

$$\sum_{\theta} e^{-\frac{2\pi}{3}} \int_{\theta}^{2\pi} \frac{r^{2}}{m} d\theta^{2}$$

$$\frac{2\pi \int_{N}^{2} \frac{1-3M^{2}}{M}}{2\pi \int_{M}^{2} \frac{1}{M}}$$

$$=\sqrt{1-3M}$$

$$=\frac{\sqrt{2}}{2}$$