

$$V = \frac{2fR}{T} - \quad R, V_{II} = \sqrt{\frac{2GM}{R}},$$

$$M = \frac{4f}{3} R^3 \dots$$

(1)

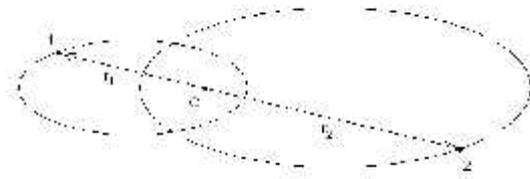
$$\frac{2fR}{T} < \sqrt{\frac{2G \cdot 4fR^3}{3}}$$

$$\dots > \frac{3f}{2GT^2}$$

$$> 196,3 \quad / \text{ }^3$$

4. 1. 2

$$M_1 \vec{r}_1 = M_2 \vec{r}_2$$



2. ($r_1 = 2r_2$, $v_1 = 2v_2$)

5.

$$V = \sqrt{\frac{2GM}{r}}$$

G - $V = 42231 \text{ /c}$, $r -$

$$V_1 = \sqrt{\frac{GM}{r}} \quad V_1 = 29862 \text{ /c}$$

$$V - V_1,$$

$$V + V_1. \quad ,$$

$$V_{III} = 12,4 \quad /c ($$

).

$$0,5 \quad / .$$

6.

$$T = \frac{b}{\} \max},$$

b -

$$= 6000 \quad .$$