

5.

G – $V_I = \sqrt{G \frac{m}{R}}$, m – , R – .

$$m = \frac{4fR^3}{3} \dots,$$

$$V_I = R \sqrt{\frac{4}{3} f G \dots}$$

$V_I = 10.44$ / .

6.

m_1 .

1 – ,

$m_2 = 6^m$,

$$\frac{2}{1} = \left(\frac{D}{d} \right)^2,$$

D –

, d- .

$$\frac{2}{1} = 100.$$

2,512^m, 100=2,512⁵, m+1
 $m_1 = 6^m + 5 = 11^m$.