

:

9.1

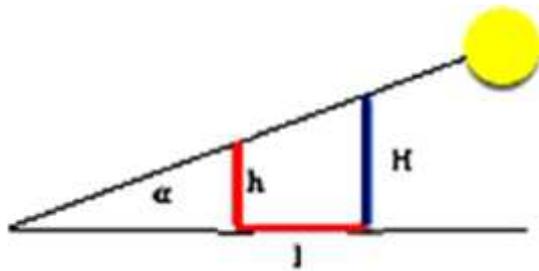
9.2

2

4

8

4
9.3



=1,8 ; h=0,8 ; l=1,6 .

$$\gamma = \tan^{-1} \left(\frac{H-h}{l} \right) = 32^\circ .$$

$$d = \frac{H}{\tan \gamma} = 2,9 .$$

9.4

	, 31
	,
	,
	-

9.5

$$G \frac{m \cdot M}{R^2} = G \frac{m \cdot m}{r^2},$$

, $M -$, $R -$,

$$r = \frac{m \cdot R}{\sqrt{m \cdot M}} \approx 0,8 .$$

9.6 :

$$\hat{\omega} \approx \sqrt{G \frac{M}{R^2}} R = \sqrt{G \frac{M}{R}}, \quad \hat{\omega}_0 \approx \sqrt{G \frac{M_0}{R_0}} .$$

,

$$\hat{\omega} \approx \sqrt{G \frac{R^3}{R}} \approx R, \quad \hat{\omega}_0 \approx \sqrt{G \frac{R_0^3}{R_0}} \approx R_0, \quad \hat{\omega} / \hat{\omega}_0 \approx 2 / 1 .$$

2 .