

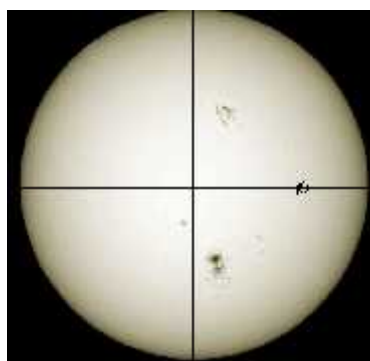
11

1.

$$\frac{360^\circ}{25} = 14,4^\circ.$$

1,3

$$14,4^\circ \cdot 1,3 = 18,7^\circ.$$



2.

$$T = \frac{2\pi R}{V}$$

$$\frac{GM}{R^2} = \frac{V^2}{R}$$

$$T = \sqrt{\frac{3\pi}{G\rho}}$$

$$= \sqrt{\frac{3}{G\rho}} = 1,3 \cdot 10^{14} \text{ / } ^3.$$

3.

6

2

4.

$$g = GM/R^2 = 4\pi G\rho R/3.$$

$$\rho = 3g/4\pi GR = 10317 \text{ / } ^3 -$$

$$v_1 = (gR)^{-1/2} = 5,77 \text{ / } .$$

$$: v_2 = 8,14 \text{ / } .$$

$$= 2\pi R/v_1 = 3700 \text{ -}$$

5.

(M) (m).

(E):

$$MV + mv = 0$$

$$\frac{1}{2}MV^2 + \frac{1}{2}mV^2 = E$$

$$V^2 = 2E/(M+m),$$

$$= \frac{2V^2 \sin r \cos r}{g}$$

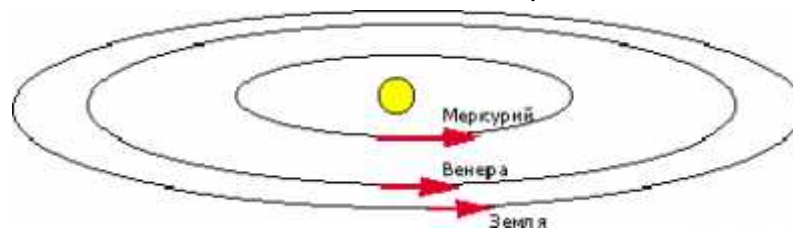
g

g.

(5.

27-

6.



3.4

),

3,4

(7.0

(21) 76,7 . (),

$$(76,7 \cdot 365) / 360^\circ = 78 .$$

:

$$21 + 78 = 7 .$$

, , 1-2 , ()

2-3

$$(0,5^\circ / \sin 3,4^\circ = 8,4^\circ; 5).$$

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- .