

10

1. $\sqrt{2}$
 45°
 $1/\sqrt{2} = \cos 45^\circ$

2. $(1 = 3,26 \dots)$
 $\dots 50 * 1000 * 3,26 = 163 \dots$

3. $-$
 $($
 $+15$).
 $01:40.$
 $07:25 (5 45 , 19:25 (6 15))$

4. $- 0,093.$
 $(336^\circ).$

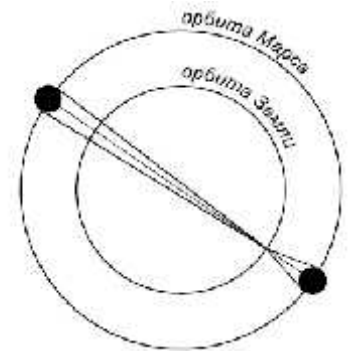
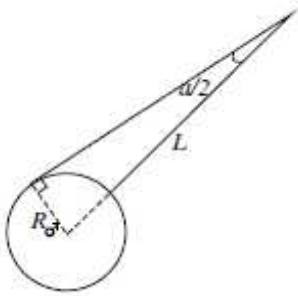
5.

6.

, , max
, , (,
, ,) , min —
(, ())
) .

); $\sin(\alpha/2) = R/L$, $R -$

(,
, $L -$



, ... $2R/L$.

$L_{\text{max}} / L_{\text{min}} = L_{\text{min}} / L_{\text{max}}$.

$L_{\text{max}} = r - r_{\oplus}$,

$L_{\text{min}} = r + r_{\oplus}$,

$r -$

, $r_{\oplus} -$

$P^2 = r^3$. $r = P^{2/3} \approx 1.6 \dots$

$L_{\text{max}} / L_{\text{min}} = (r + r_{\oplus}) / (r - r_{\oplus}) \approx 2.6 / 0.6 \approx 4.3$

1.5 ... ,

5 .

(4.3 5)

III
P ,