

11 ,2016

8

1 (8)

600

588

?

?

0,02 · 300000 = 6000 /

$\frac{6 - 5}{6} = 0,02$

2
2
1
3

2 (8)

?

2,512

$2,512^2 \approx 6,31$

$\sqrt{2,512^2} = 2,512$

$R + r = 2,512(r - R)$

$r \approx 2,32R$

$(2,32)^{2/3} \approx 1,75$

$360^u / (1,75 \cdot 365,25) \approx 0,56^u$

0,42 /

180

180/0,42= 425

4
4

3 (8)

$1 + 365,24 \approx 366,24$

$(+1 - -1 +$

365,24 ≈ 364,24
 366,24/364,24 ≈ 1,0055

7 54

_____ :
 3
 3
 2

_____ 4 (8)

1 ..

_____ :

0,52a. e.,

1 ..

$$R_M - R_3 = 1,52 - 1 =$$

$$1/0,52 \approx 1,92$$

100%.

$$1^2 = 1^2 + 1,52^2 - 2 \cdot 1 \cdot 1,52 \cdot \alpha$$

$$1 - 40,5^\circ / 180^\circ \approx 77,5\%$$

$$\alpha \approx 0,7 \text{ рад} = 40,5^\circ$$

1 ..

$$0,775 \cdot 0,52^2 \approx 0,21$$

$$m = -2,9 - 2,5k_1 (0,21) \approx -1,2$$

_____ :
 4
 2
 2

_____ 5 (8)

?

_____ :

a

$$\sqrt{3}/2 \cdot a$$

$$R_3 - R_B = 149,6 - 108,2 =$$

41,4млн. км,

()

$$\sqrt{3}/2 \cdot 41,4 \approx 35,9 \text{ млн. км}$$

90

_____ :
 2
 2 3
 4

1 ,

$$2 \cdot \pi \cdot R \approx 9,4 \cdot 10^8 \text{ км.}$$

$$V_3 \approx 29,8 \text{ / .}$$

$$V_B \approx 35 \text{ / .}$$

$$\alpha_B \approx 3,4^u$$

$$V_1 = 2\pi R_3 / (24 \cdot 3600) \approx 0,46 \text{ / .}$$

$$\beta \approx 23,5^u.$$

$$V_e = V_B \cdot c_1(\alpha_B) - V_3 + V_1 \cdot c_1(\beta) \approx 5,56 \text{ /}$$

$$V_{\Pi} = V_B \cdot s_1(\alpha_B) \pm V_1 \cdot s_1(\beta) \approx 1,89 \text{ /}$$

(

$$L_B = R_3 - R_B = 149,6 - 108,2 \approx$$

41,4 . .

$$5,56/41400000 \approx 1,34 \cdot 10^{-7} \text{ рад/с}$$

$$v_{Be} =$$

$$v_{\Pi} = 1,89/41400000 \approx 4,57 \cdot$$

10⁻⁸ рад/с.

$$U_e = -V_3 + V_1 \cdot c_1(\beta) \approx -29,38 \text{ /}$$

$$U_{\Pi} = V_1 \cdot s_1(\beta) \approx -0,18 \text{ /}$$

$$v_{ce} \approx -1,96 \cdot 10^{-7} \text{ рад/с } v_{\Pi} \approx -1,2 \cdot$$

10⁻⁹ рад/с.

$$v = \sqrt{(v_{Be} - v_{ce})^2 + (v_{\Pi} - v_{\Pi})^2} \approx 3,31 \cdot 10^{-7} \text{ /}$$

$$r = 2 \cdot 695000/149600000 \approx 0,009$$

$$r =$$

$$0,009/3,31 \cdot 10^{-7} = 28042 \text{ сек} \approx 7 \text{ ч } 47 \text{ мин } 22 \text{ с}$$

_____ :

1
2
2
2
1