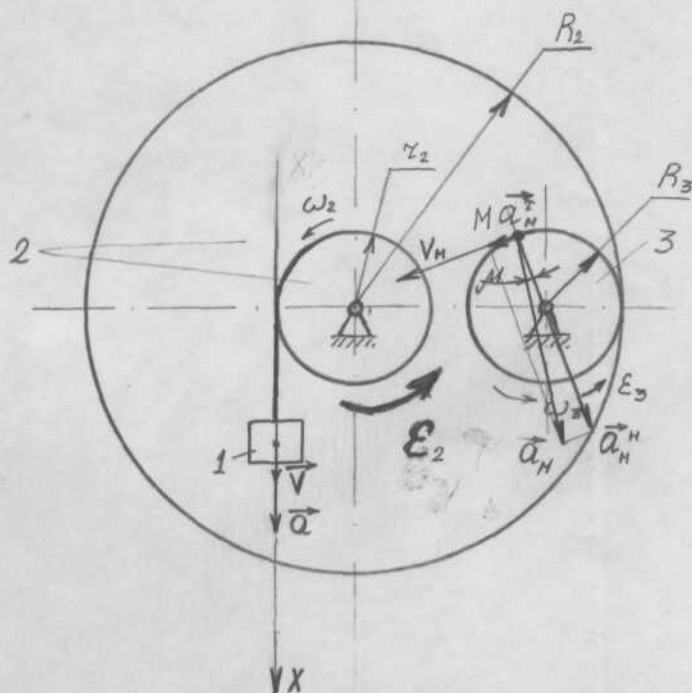


B8

3Д-210

при  $t_0 = 0(c)$ 

$$C_2 \cdot 0 + C_1 \cdot 0 + C_0 = \overline{6[cm]}, C_0 = 6[cm]$$

$$V = \frac{dx}{dt} = 2C_2 t + C_1 \left[ \frac{cm}{c} \right]$$

$$2C_2 \cdot t_0 + C_1 = V_0, C_1 = V_0 = 2 \left[ \frac{cm}{c} \right]$$

при  $t_2 = 3c$ :

$$X_2 = C_2 t_2^2 + C_1 t_2 + C_0 [cm]$$

$$111 = 9C_2 + 2 \cdot 3 + 6, C_2 = 11 \left[ \frac{cm}{c^2} \right]$$

$$X = 11t^2 + 2t + 6 [cm]$$

$$V = 22t + 2 \left[ \frac{cm}{c} \right] \quad V_2 = dx/dt$$

$$V_1 = 22 \cdot 2 + 2 = 46 \left[ \frac{cm}{c} \right]$$

$$a_1 = dV/dt = 22 \left[ \frac{cm}{c^2} \right]$$

$$\begin{cases} V = \omega_2 \cdot r_2 \\ R_2 \omega_2 = R_3 \omega_3, \omega_2 = V/r_2 \end{cases}$$

$$\omega_3 = \frac{R_2 V}{r_2 R_3} = \frac{(22t+2)R_2}{r_2 R_3} \left[ \frac{rad}{c} \right]$$

$$V_M = \omega_3 \cdot R_3 = \frac{22t+2}{r_2 \cdot R_2} \cdot R_2 \Big|_{t=2c} =$$

$$= \frac{22 \cdot 2 + 2}{10} \cdot 35 = 161 \left[ \frac{cm}{c} \right]$$

$$\varepsilon_3 = \dot{\omega}_3 = \frac{22 R_2}{r_2 R_3} \left[ \frac{rad}{c^2} \right]$$

$$a_M^r = \varepsilon_3 \cdot R_3 = \frac{22 R_2}{r_2} = \frac{22 \cdot 35}{10} = 77 \left[ \frac{cm}{c^2} \right], a_M^h = R_3 \cdot \omega_3^2 = R_3 \cdot \left( \frac{(22t+2)R_2}{r_2 R_3} \right)^2 = \frac{(22 \cdot 2 + 2)^2 \cdot 35^2}{10^2 \cdot 10} = 25921 \left[ \frac{cm}{c^2} \right]$$

$$a_M = \sqrt{a_M^r^2 + a_M^h^2} = \sqrt{77^2 + 25921} = 2593 \left[ \frac{cm}{c^2} \right]; \mu = \arctg \frac{a_M^r}{a_M^h} = \arctg \frac{77}{2592.1} = 1.7^\circ$$

K2

$$R_2 = 35 cm$$

$$r_2 = 10 cm$$

$$R_3 = 10 cm$$

$$X_0 = 6 cm (t_0 = 0c)$$

$$V_0 = 2 cm/c$$

$$X_2 = 111 cm$$

$$t_2 = 3c$$

$$t_1 = 2c$$

$$X = C_2 t^2 + C_1 t + C_0 [cm]$$

$$C_0, C_1, C_2,$$

$$V_1, a_1, a_{M1}, V_{M1}?$$

 $V_1, \frac{cm}{c}$ 
 $a_1, \frac{cm}{c^2}$ 
 $a_{M1}, \frac{cm}{c^2}$ 
 $V_{1M1}, \frac{cm}{c}$ 
 $a_{M1}^r, \frac{cm}{c^2}$ 
 $a_{M1}^h, \frac{cm}{c^2}$ 

46

22

2593

161

77

2592

26.11.09