Jagara 21.2

Tok 16, 200 yp-us darp coon, ecus narp others

ra agg. noutryo noun npouzh no bpeur manyh queur

koopg. u bpeuereu.

Trus e narpanneuarianus Li u Li+ dF unerot

ogun u 101 ne npanioù nyo, kanoba dos mu

Sonia F(9,t).

Гассинотрини действие I = S Lidt u generale $I = \int_{t_0}^{t_1} \left(L + \frac{dF}{dt} \right) dt = \int_{t_0}^{t_1} L dt + \int_{t_0}^{t_1} dF = I + F \Big|_{t \ge t_0}^{t_2 t_1}$ SF | t=t, = SF | t=to = 0 6 energ voio, rão kak npu t = to, ran u npu t= 1, bee paccuarpub. xpubore npoxogar repez ogrey u ry me vorky pacremperereou roops, np-ba Morramy Jan Kak tea mounder nyon d] = 0, to ma Tem me nyra SI=0, a 200 zuavent, mo ogna u va me repubble abet-as repairemen nytien que yp-uis dayrannea e marp Lu L, zrearux уравн. Лауранска совпаданой. to A 9,

(21.4) B noue ram., 11 02. reps Mo (xo, yo, 20, to) 4 M, (x1, y1, 21, t1), we were b runepnuock t-const (1, + t1) moncho npol npaneron negot u npuetous roccoro 1. L = 1 m (x2+y2+22) - mgz The npurusury Januario ona repez & 2 rocker M. u M. moncreo npobleres npamois next a npuram тамко один, есни ур-ие Лагранема ишеет решение, опредил однозначно (гогда в W=0) Spab. slarpainnea:

(x = A t + B [2=9 | Z=9t2+Et+F Hogerabut rearenteure yourbus, nougreen (X1 = At, + B $\Delta = \begin{vmatrix} t_1 & 1 \\ t_0 & 1 \end{vmatrix} = t_1 - t_0 \neq 0 \quad 6 \quad \text{every}$ your obeca (x = At + B B onpegeneros ognoznarios THATELY Au Cu D'onpegenereur ogreozriarino Anauorevisio

Jogerabeuer gus 2:

\[\text{2.} = \frac{9t^2}{2} + \text{Et.} + \text{F} \]

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\[\text{2.} - \frac{9t^2}{2} = \text{Et.} + \text{F} \]

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\[\text{ognozreaveno npu to \$\neq t_1\$.}

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\[\text{JII. e. pewerwe yrabh. larparenca Juonpeg,}

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\[\text{ognozreaveno.} \text{3heaven wexogn, ytb. \(\text{vakace beproof.} \)

$$21.12)$$

$$2_{rp} = \frac{qt^{2}}{2}$$

$$2_{ok} = qt^{2} \quad (n \ge 1)$$

$$L = \frac{m^{2}z^{2}}{2} - mq^{2}$$

$$2 \text{ Decict bece ha premover negrow
}$$

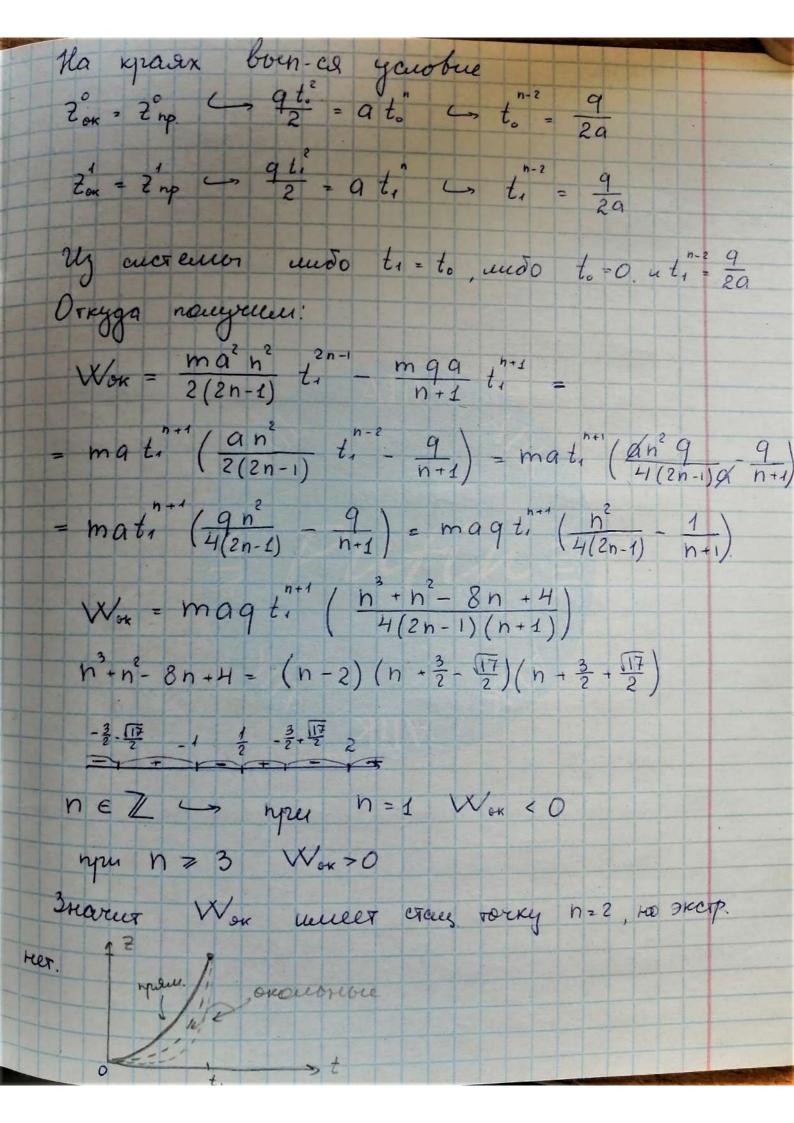
$$W_{np} = \int_{t_{0}}^{t} L_{0} dt = \int_{t_{0}}^{t} \left(m \frac{q^{2}t^{2}}{2} - m \frac{q^{2}t^{2}}{2}\right) dt = 0$$

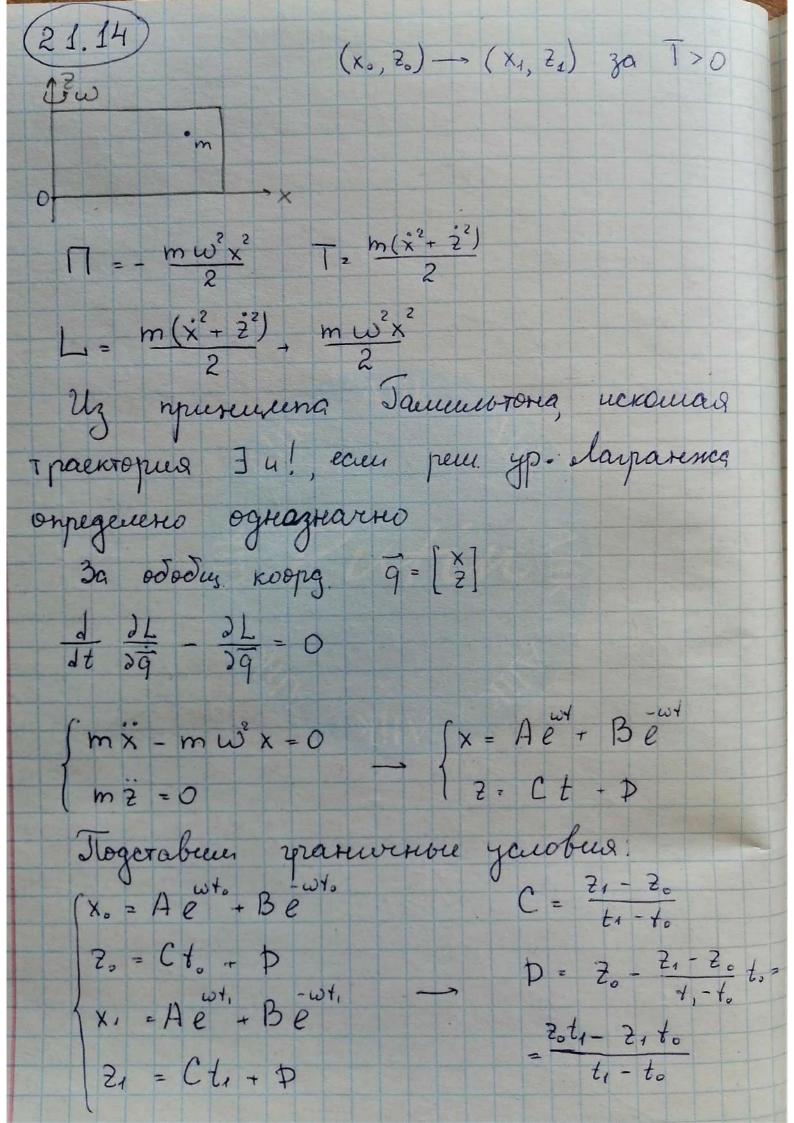
$$2 \text{ Decict bece ha premover negrow
}$$

$$2 \text{ Decict bece ha premover negrow
}$$

$$2 \text{ In } dt = dt$$

$$2 \text{ The } dt$$





A = x, e - B e

B: \(\frac{-\psi \(\text{i} - \text{i} \)}{e^{\psi \(\text{i} - \text{i} \)} + e^{\psi \(\text{i}} \)} \(\frac{-\psi \(\text{i} - \text{i} \)}{e^{\psi \(\text{i} - \text{i} \)} + e^{\psi \(\text{i}} \)} \(\frac{-\psi \(\text{i} - \text{i} \)}{e^{\psi \(\text{i} - \text{i} \)} + e^{\psi \(\text{i} - \text{i} \)} + e^{\psi \(\text{i} - \text{i} \)} \(\text{i} - \text{i} \)

Bce κοσφορ οπρ ca ognoznavino, znavie

∃! Τραεκτοριώ, γgobi. γcωθθώτο.

21.15)

Therefore, and Work = Wry +
$$\frac{1}{2} \int_{0}^{1} \left[(5x)^{2} + \omega^{2}(5x)^{2} + (5z)^{2} \right] df$$

128 $5x = x_{out} - x_{out}$, $5z = z_{out} - z_{out}$ at $5x(0) = 6x(1) = 0$
 $5z(0) = 5z(7) = 0$

Where $\frac{1}{2} \int_{0}^{1} \left[x^{2} + z^{2} + \omega^{2}x^{2} \right] df + \frac{m}{2} \int_{0}^{1} \left[2x5x + (5x)^{2} + \omega^{2}(x + 5x)^{2} \right] df = \frac{m}{2} \int_{0}^{1} \left[x^{2} + z^{2} + \omega^{2}x^{2} \right] df + \frac{m}{2} \int_{0}^{1} \left[2x5x + (5x)^{2} + \omega^{2}(x + 5x)^{2} \right] df = \frac{m}{2} \int_{0}^{1} \left[x^{2} + z^{2} + \omega^{2}x^{2} \right] df + \frac{m}{2} \int_{0}^{1} \left[2x5x + (5x)^{2} + \omega^{2}(x + 5x)^{2} \right] df = \frac{m}{2} \int_{0}^{1} \left[x^{2} + z^{2} + \omega^{2}x^{2} + \omega^{2}x^{2} \right] df + \frac{m}{2} \int_{0}^{1} \left[2x5x + (5x)^{2} + \omega^{2}x^{2} +$

Uz npegoig. Zagaver $\dot{z} = 0$ $-\dot{x} + \dot{\omega}^2 \dot{x} = 0$ Torga: $\dot{w}_{ox} = W_{np} + \frac{1}{2} m \int [(f\dot{x})^2 + \dot{\omega}^2 (f\dot{x})^2 + (f\dot{z}\dot{z})^2] df$ $\dot{z} = 0$ $\dot{z} = 0$ $\dot{x} + \dot{\omega}^2 \dot{x} = 0$ Torga: $\dot{z} = 0$ $\dot{z$