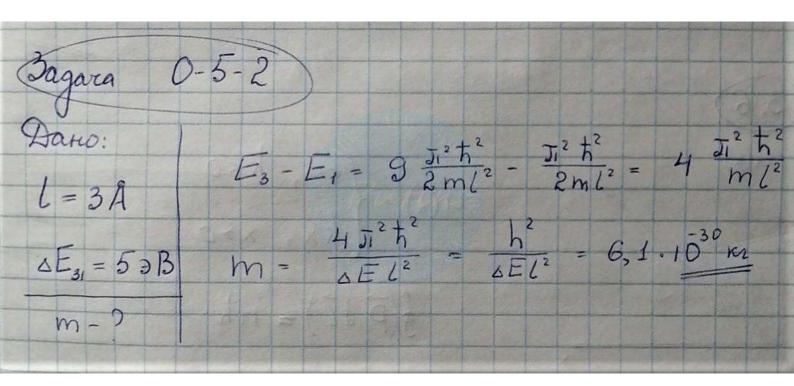
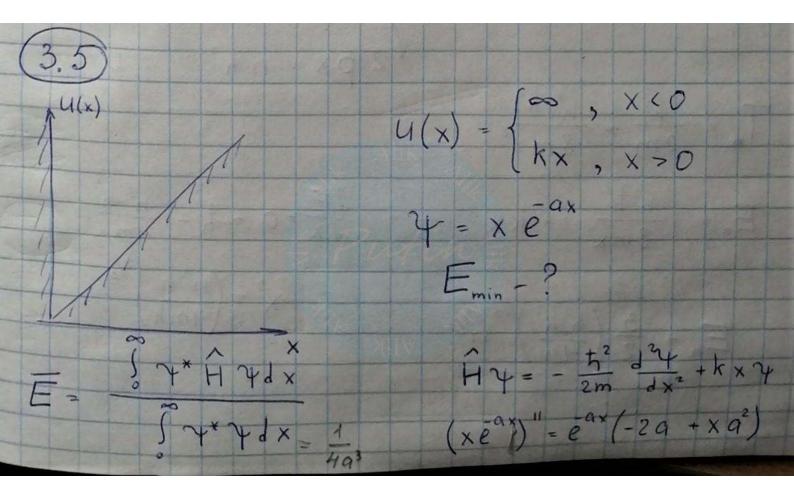
Bagara 0-5	
<u> Масяшца</u>	в бесконечн поч. эме имеет томо
guckperrible	zerar. Frequen: $E_n = \frac{\pi^2 h^2}{2m q^2} h^2$ , rge
а- ширина	aucol.
	breow coct. uneen $E_1 = \frac{J^2 t^2}{2m q^2}$
$A = E_1\left(\frac{\xi}{2}\right)$	$-E_{1}(l) = \frac{3}{2} \frac{J_{1}^{2} h^{2}}{m l^{2}}$





$$\frac{1}{1} \frac{1}{1} = -\frac{h^2}{2m} e^{-ax} \left(-2a + xa^2\right) + kx^2 e^{-ax}$$

$$\int x e^{-ax} e^{-ax} \left(-\frac{h^2}{2m} \left(-2a + xa^2\right) + kx^2\right) dx = \frac{1}{8} \left(\frac{h^2}{ma} + \frac{3k}{a^4}\right)$$

$$E = 4a^3 \frac{1}{8} \left(\frac{h^2}{ma} + \frac{3k}{a^n}\right) = \frac{h^2a^2}{2m} + \frac{3k}{2a}$$

$$\frac{1}{2} \frac{1}{a} = 0$$

$$\frac{1}{2} \frac{3km}{a^2} = \frac{3km}{2k^2} = \frac{3km$$

3.6
$$u(x) = \begin{cases} \infty, & < 0 \\ kx, & x > 0 \end{cases}$$

$$\begin{cases} (\vec{p} \cdot d\vec{l}) = hh \\ 2px = hh \end{cases}$$

$$F_n = \frac{h^2 h^2}{8mx^2} + kx$$

$$\begin{cases} E_n = \frac{h^2 h^2}{8mx^2} + kx \end{cases}$$

$$\begin{cases} E_n = \frac{h^2 h^2}{8mx^2} + kx \end{cases}$$

$$\begin{cases} E_n = \frac{3}{2} \left(\frac{h^2 k^2}{4m}\right)^{1/3} n^{2/3} \end{cases}$$

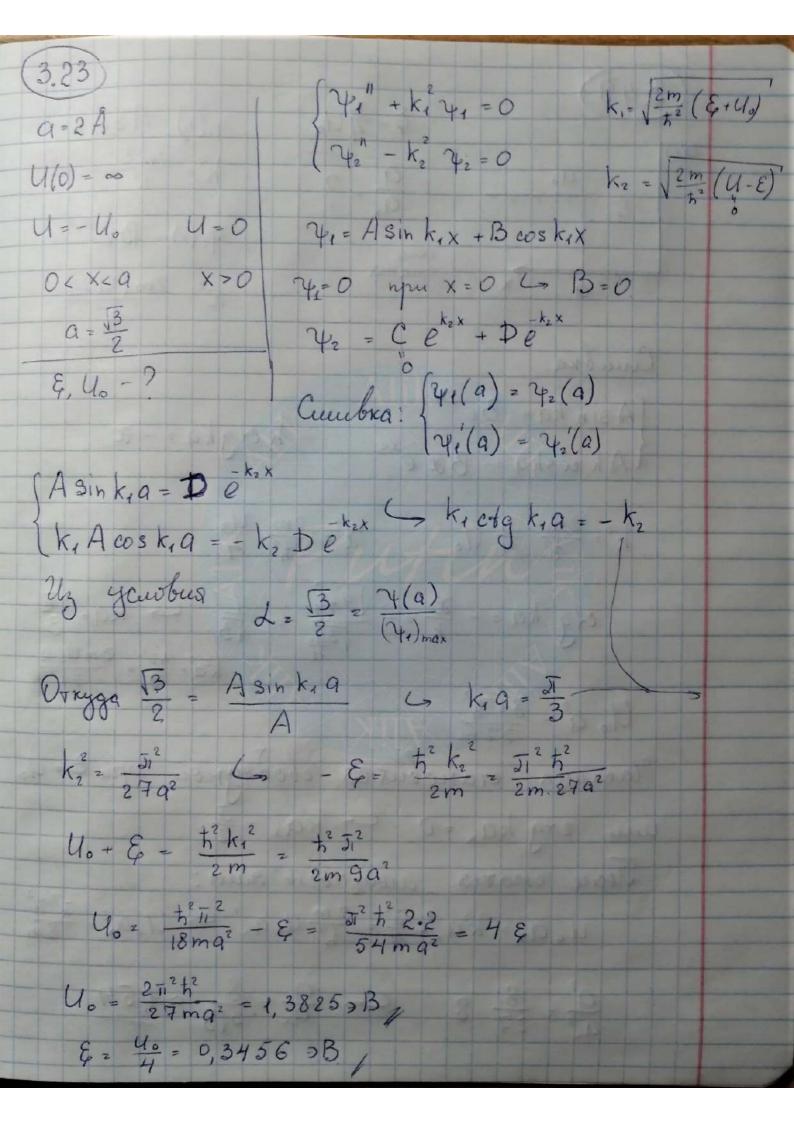
$$\begin{cases} x^2 = \left(\frac{h^2 h^2}{4mk}\right)^{2/3} \\ \frac{4mk}{4mk} \end{cases}$$

 $3C9: \frac{mv^2}{2} = E_n + \frac{mv^2}{2}$ rge En = 1,2 h2 n2. Macruser mongy, ecus mo > Ex Откуда понушен: d = 10 cm  $\frac{mv^2}{2} \geqslant \frac{\pi^2 h^2}{2md^2}$ L»d, L»l J = Jih = 0,02 m/e = 2 cm/e J-? Vmin -? Ilpu d= ( «bagparroe cererue) muelle gbymepreyro noveres, semey.  $E_n = \frac{J_1^2 + \frac{1}{2}}{2m} n^2 \left( \frac{1}{L^2} + \frac{1}{d^2} \right)$ 5 > Jith 1/2 + 1/2 = Jith 12 = 2,8 cm/e

Cumbra:
$$(y_1(a) = y_2(a), y_1(0) = 0)$$

$$(y_1(a) = y_2(a), y_1(0) = 0)$$

$$(Asin ka = Ce^{Ba})$$



(3.49) E= 34400 4.(x) = Asinkx  $k^2 = \frac{2m \mathcal{E}}{\hbar^2}$ a ? 42(x) = B = 2x  $2e^2 = \frac{2m(U-E)}{\hbar^2}$ Cumbra: Sainka = Bexa
Akcoska = - Bæexa ketgkaz-æ  $k^2 = \frac{2m}{\hbar^2} \frac{3}{4} U_0$  $\mathcal{X}^2 = \frac{2m}{t^2} \frac{U_0}{4}$  $\frac{c+g}{2} ka = -\frac{2}{k} = -\frac{\sqrt{4}\sqrt{4}}{\sqrt{34}} = -\frac{1}{\sqrt{3}} + \frac{\sqrt{34}\sqrt{3}}{\sqrt{34}} = -\frac{1}{\sqrt{34}} + \frac{\sqrt{34}\sqrt{34}\sqrt{34}}{\sqrt{34}} = -\frac{1}{\sqrt{34}} + \frac{\sqrt{34}\sqrt{34}\sqrt{34}} = -\frac{1}{\sqrt{34}} + \frac{\sqrt{34}\sqrt{34}\sqrt{34}} = -\frac{1}{\sqrt{34}} + \frac{\sqrt{34}\sqrt{$ U. 92 = 87242 27 m Маскина становится свободной при Е: И. une etg kax = 0 ( ) kax = = = Docue encertes " mongreocto" anno: 9 27 8  $C_{7} = \frac{9}{9x} = \frac{8}{3\sqrt{3}} \approx 1,54$