	Bagarne 1	
	<u= +="" 1="" <="" q,="" th="" α,="" β,="" β<=""><th></th></u=>	
	< α   β > = α, β < 4, 14, > + 6, β < 4, 14, > + α, β < 4, 14, > +	
	6,= sin θ 60= cos θ exp(iq) nyer gra 16> Θ 6=0 (q=0	
	$a_1 = s_1 \eta \mathcal{G}_1$ $a_2 = cos \mathcal{G}_1 \exp(iq)$	
	Задание 2	
o)	$\hat{H} = \begin{pmatrix} \mathcal{E}_o & O \\ O & -\mathcal{E}_o \end{pmatrix}$	
	$ L(0)\rangle =  L_0\rangle = \frac{1}{ R } \left( \frac{1}{1} \right) \qquad  L_0\rangle = \frac{1}{ R }  q_1\rangle + \frac{1}{ R }  q_2\rangle \Rightarrow  L\rangle = \frac{\exp\left(\frac{i\mathcal{E}_0 t}{h}\right)}{ Q_1\rangle}  Q_1\rangle \Rightarrow  L\rangle = \exp\left(\frac{i\mathcal{E}_0 t}{h}\right)$	
	$\mathcal{E}_{+} = \mathcal{E}_{0} \qquad \mathcal{E}_{-} = -\mathcal{E}_{0} \qquad = \exp\left(\frac{i\mathcal{E}_{0}t_{h}}{h}\right)\left[\frac{i^{N}(q_{i})}{h} + \frac{i^{N}}{h}\exp\left(\frac{2i\mathcal{E}_{0}t_{h}}{h}\right) q_{i}\rangle\right] = 2\theta = \frac{2i\mathcal{E}_{0}t}{h}$	
	$ Iq_1\rangle = \binom{0}{1}  Iq_2\rangle = \binom{1}{0}$	
6)	$\hat{z}_{g} = \begin{pmatrix} 0 & -1 \\ 1 & 0 \end{pmatrix}$ $P(\xi) = \left\{ \frac{1}{4} \left  \left  1 - 1 \right  \exp \left( \frac{x_{1} \mathcal{E}_{o} \xi}{h} \right) \right ^{2} = \frac{1}{4} \left  \left  1 - 1 \right  \exp \left( \frac{x_{1} \mathcal{E}_{o} \xi}{h} \right) \right ^{2} = \frac{1}{4} \left  \left  \frac{x_{1} \mathcal{E}_{o} \xi}{h} \right ^{2} = \frac{1}{4} \left  \frac{x_{1} \mathcal{E}_{o} \xi}{h} \right ^{2} = \frac{1}{4} \left  \frac{x_{2} \mathcal{E}_{o} \xi}{h} \right ^{2} = \frac{1}{4} \left  \frac{x_{1} \mathcal{E}_{o} \xi}{h} \right ^{2} = \frac{1}{4} \left  \frac{x_{2} \mathcal{E}_{o} \xi}{h} \right ^{2} = \frac{1}{4} \left  \frac{x_{1} \mathcal{E}_{o} \xi}{h} \right ^{2} = \frac{1}{4} \left  \frac{x_{2} \mathcal{E}_{o} \xi}{h} \right ^{2} = \frac{1}{4} \left  \frac{x_{1} \mathcal{E}_{o} \xi}{h} \right ^{2} = \frac{1}{4} \left  \frac{x_{2} \mathcal{E}_{o} \xi}{h} \right ^{2} = \frac{1}{4} \left  \frac{x_{1} \mathcal{E}_{o} \xi}{h} \right ^{2} = \frac{1}{4} \left  \frac{x_{2} \mathcal{E}_{o} \xi}{h} \right ^{2} = \frac{1}{4} \left  \frac{x_{1} \mathcal{E}_$	
	$\delta_{1} = 1  \delta_{2} = 1  \left  P(\xi) = \left  \langle q_{2}   L \rangle \right ^{2} = \frac{1}{4} \left  1 + i \exp \left( \frac{u \xi \xi}{h} \right) \right ^{2} = \frac{1}{2} - \frac{1}{2} \sin \left( \frac{u \xi \xi}{h} \right) = \lambda  \text{The } \frac{3\pi h}{4 \xi_{0}}$	
	$ q_1\rangle = \frac{1}{\ell^2} \left(\frac{-1}{1}\right) \qquad  \psi_a\rangle = \frac{1}{\ell^2} \left(\frac{1}{1}\right)$	
	$\langle q_i \rangle = \frac{i \pi}{i \pi} \langle 1, i \rangle \qquad \langle q_i \rangle = \frac{i \pi}{i \pi} \langle -i, i \rangle$	
c)	$< ((\hat{\xi}_{q}(c) = \frac{1}{2}(\exp[\frac{2i\xi_{q}t}{\hbar}], 1)(\stackrel{\circ}{i} \stackrel{\circ}{\circ})(\exp[\frac{1i\xi_{q}t}{\hbar}]) = \frac{1}{2}(\frac{1}{2}, -i\exp[\frac{1i\xi_{q}t}{\hbar}])(\exp[\frac{1i\xi_{q}t}{\hbar}]) = \frac{\exp(\frac{1i\xi_{q}t}{\hbar}) - \exp(\frac{1i\xi_{q}t}{\hbar})}{2} = -sm(\frac{1i\xi_{q}t}{\hbar})$	
d)	$\exp\left(i\frac{\hat{H}_{h}^{L}}{\hbar}\right)\hat{\mathcal{E}}_{g}\exp\left(i\frac{\hat{H}_{h}^{L}}{\hbar}\right) = \hat{\mathcal{E}}_{\frac{1}{4}} + i\frac{\hat{H}_{h}^{L}}{\hbar}\left[\hat{H}_{1}\hat{\mathcal{E}}_{\frac{1}{2}}\right] + i\frac{\hat{H}_{1}^{L}}{\hbar}\left[\hat{H}_{1}\hat{\mathcal{E}}_{\frac{1}{2}}\right] + i\frac{\hat{H}_{2}^{L}}{\hbar}\left[\hat{H}_{1}\hat{\mathcal{E}}_{\frac{1}{2}}\right] + i\frac{\hat{H}_{2}^{L}\hat{\mathcal{E}}_{\frac{1}{2}}\right] + i\frac{\hat{H}_{2}^{L}}{\hbar}\left[\hat{H}_{1}\hat{\mathcal{E}}_{$	
	$\langle u \hat{\mathcal{G}}_{\delta}(t)   u \rangle = \langle u \hat{\mathcal{G}}_{\delta}(u) + \sum_{i=0}^{k} \langle u_i \rangle \binom{e^{-i\alpha}}{\alpha e} \binom{1}{1} = \frac{4i\xi}{6}$	
3	Sagarne 3	
	Us Lekajun Ez= E t (E'd' \ar	
	$\gamma = -\frac{\delta \epsilon_{i}}{\delta E} + \frac{\delta \epsilon_{i}}{\delta (\epsilon_{i} q_{i} + \gamma_{i})} = + \frac{(\eta_{i} \epsilon_{i} - \rho_{i})_{i}}{\rho_{i} q_{i}}$	