cuemena zenanat corgramenas

$$\vec{u}_t + \vec{f}(\vec{u})_x + \vec{g}(\vec{u})_y = 0$$
(1)

$$\vec{u}_{t} + \vec{f}(\vec{u})_{\alpha} + \vec{g}(\vec{u})_{y} = 0$$
 (1)
6 odusan, engree: $\vec{u} = \begin{pmatrix} u_{2} \\ u_{n} \end{pmatrix}, \vec{f} = \begin{pmatrix} f_{2}(\vec{u}) \\ \vdots \\ f_{n}(\vec{u}) \end{pmatrix}, \vec{g} = \begin{pmatrix} g_{1}(\vec{u}) \\ g_{n}(\vec{u}) \end{pmatrix}$

Cuem, y-u razaban gunannun.

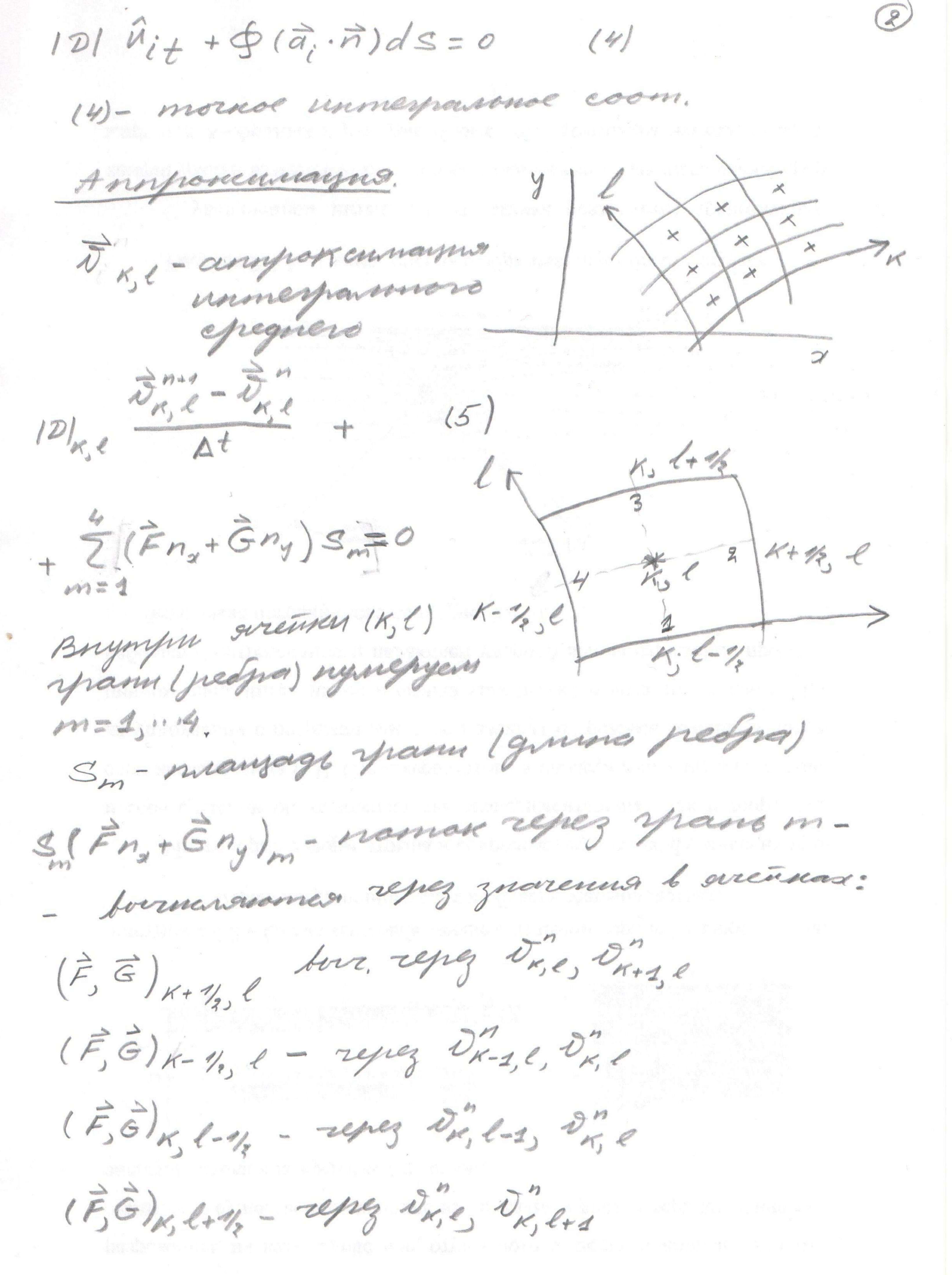
$$E = \beta(E + \frac{1}{2}(u^2 + \delta^2))$$
 $E = \frac{1}{\gamma - 1}f$, guas boggyxes $\chi = 1.4$

Unnesparente coonen.

quay y = 1 2.9. qua l= 1, 14

Uit + fin + giy = 0;
ofgran,
$$\vec{a}_i = (f_i, g_i)$$

R'>D-orpanion, odneroneryens $\vec{u}(x,y,t)-p-e(x)$ $0=\frac{2}{2t}\int u_i dV + \int d\vec{u} \vec{a}_i - \frac{2}{2t}\int u_i dV + \int (\vec{a}_i \cdot \vec{n}) dS$ \vec{D}



- 1) blog yznob cemmen (2, y), e K=0, ... K bovenarenne manyeigen sweek, bovenerenne nopmaren u grum peden areek
 - 2) blog navammes znavennu b sviennas $\mathcal{O}_{K,\ell}^{n}$ K=0,...K-1, $\ell=0,...\ell-1$
 - 3) your no menan no bremen

pacrem mana:

pacrem nomanol[S($\vec{F}n_x+\vec{G}n_y$)] K=0,...,K-1, l=0,...lpacrem nomanol[S($\vec{F}n_a+\vec{G}n_y$)] K=0,...,K, l=0,...l-1pacrem nobra znevenia $\vec{D}_{K,\ell}$ b sereinas no popuynam (5)

4) Banner Die gna mogamemus
pacrema
bennen (2,4), e; Die gna
rpagemeenañ odpadomm (Teoplat,
un Visit)