The House- Fobanesceni (0] 3. Four gra \mathfrak{D}_{YY})

Cyusechsyem eguhemseuhoe aramimureckoe \mathcal{E} Oxfreemhoemu τ . $(\mathfrak{X}_{1}^{n}...\mathfrak{X}_{n}^{n})$ fremenue \mathfrak{B}_{YY} , frazpewenhow omhocutensho odnoù uz emafumx $\frac{\partial u}{\partial \mathfrak{X}_{1}^{p}} = \int (\mathfrak{X}_{1},...\mathfrak{X}_{n}, u, \frac{\partial u}{\partial \mathfrak{X}_{1}}, ... \frac{\partial u}{\partial \mathfrak{X}_{2}^{p}}, ... \frac{\partial u}{\partial \mathfrak{X}_{n}^{p}})$ c Joganhurum yenobushu $u(\mathfrak{X}_{1}^{n},\mathfrak{X}_{2},...\mathfrak{X}_{n}) = \varphi_{0}(\mathfrak{X}_{2},...\mathfrak{X}_{n})$ $\frac{\partial u}{\partial \mathfrak{X}_{1}^{n}}(\mathfrak{X}_{1}^{n},\mathfrak{X}_{2},...\mathfrak{X}_{n}) = \varphi_{1}(\mathfrak{X}_{2},...\mathfrak{X}_{n})$ $\frac{\partial^{-1}}{\partial \mathfrak{X}_{1}^{n}}(\mathfrak{X}_{1}^{n},\mathfrak{X}_{2},...\mathfrak{X}_{n}) = \varphi_{p-1}(\mathfrak{X}_{2},...\mathfrak{X}_{n})$

ecul

- 1) 9-44 Po, Pi... PP-1 esurptus anametirecement op-2m 6 04 T. (x2.... In)
- 2) 90-я змента онамит. 90-ей своих артументов

Дей др. я в (Уг. т. т.) наз. она метической релу в она совпадаль с ридоля Тлейлора в она мобой т. обл. определения.

Sygym omauratoca mensue, rem rea E |Miltix)-Uz(tix) | LE, ecam morsko naz. yerosua

$$v \begin{cases} u_{1}(0,x) = \varphi_{1}(x) \\ (u_{1})_{\pm}^{1}(0,x) = \psi_{1}(x) \end{cases} \qquad \begin{cases} u_{2}(0,x) = \varphi_{2}(x) \\ (u_{2})_{\pm}^{1}(0,x) = \psi_{2}(x) \end{cases}$$

οπρισταιοται меньше, чем не σ 14(x)-42(x)/2 δ; 14(x)-42(x)/2 δ

$$u_{1}(t,x) = \frac{\varphi_{2}(x+at) + \varphi_{1}(x-at)}{2} + \frac{1}{2a} \int_{x-at} \psi_{1}(\xi) d\xi$$

$$u_{2}(t,x) = \frac{\varphi_{2}(x+at) + \varphi_{2}(x-at)}{2} + \frac{1}{2a} \int_{x-at} \psi_{2}(\xi) d\xi$$

$$u_{2}(t,x) = \frac{\varphi_{2}(x+at) + \varphi_{2}(x-at)}{2} + \frac{1}{2a} \int_{x-at} \psi_{2}(\xi) d\xi$$

$$x-at$$

| U1 (t, x)- U2 (t, x) | ≤ ½ | φ2 (x+at)- φ2 (x+at) | + ½ ki (x-at) -- φ2 (x-at) | + ½ | ς α | γ- α + (3) - ψ2 (3) d3 | ≤