Maxinggob Gran 1) Temure zagary Komu, ykazame odnacine egunembennocum 4 odnacine

$$\int \mathcal{X} u_{xx} - u_{yy} + \frac{1}{2} u_{x} = 0, \quad 0 < x < 1$$

$$| u_{y=0}| = x, \quad u_{y}|_{y=0} = 0$$

a= 2, 6=0, c=-1 при 20 ур-е иперьопическое

1) 
$$\frac{dy}{dx} = \pm \frac{1}{\sqrt{x}}$$

$$2\sqrt{x} - y = \ell_1$$

$$2\sqrt{x} + y = \ell_2$$

$$h = 2\sqrt{x} - y$$
;  $h = 2\sqrt{x} + y$ ;  $u_{x} = \frac{u_{x}}{\sqrt{x}} + \frac{u_{z}}{\sqrt{x}}$ ;  $u_{y} = u_{y} - u_{x}$ 

$$u_{xx} = \frac{u_{14}}{x} + \frac{u_{1h}}{x} + \frac{2u_{12}}{x} + (-\frac{1}{2x^{\frac{3}{2}}})(u_{1} + u_{1})$$

$$x u_{xn} - u_{yy} = 2u_{xy} + 2u_{xy} - \frac{1}{2\sqrt{x}}(u_{x} + u_{y}) = 4u_{xy} - \frac{1}{2}u_{x}$$

$$h = F(4) + g(h) = f(2\sqrt{x} - y) + g(2\sqrt{x} + y)$$

$$F(2\sqrt{x}) + g(2\sqrt{x}) = x$$

$$U_y = U_7 - U_7 = g_1'(1) - F_1'(1) = 0$$
:  $F_2'(\sqrt{2}x) + g_2'(\sqrt{2}x) = 0$ 

$$(1 + F(2\sqrt{2}) = 9(2\sqrt{2}) - G_1; Un = U_2 \Rightarrow F(\xi) = \frac{\xi^2}{8} + C_1; g(\xi) = \frac{h^2}{8} - C_1$$

$$U = \frac{1}{3} \left( \frac{1}{3}^2 + \frac{1}{2}^2 \right) - 2 + \frac{1}{4}$$

$$ODE-me \quad zal-mu : natigin \quad yp. a \quad zapax., ypoxogrusux \quad zgpas \quad Olo:0)$$

$$E = 2\sqrt{2} - 9 \qquad fr! \quad 9 = 2\sqrt{2} \qquad Dou. \quad zal. \quad uencum \quad buynyu \quad vapudaue \quad y^2 = 4 \times 2$$

$$2) \quad \text{ Semume } \quad zagary \quad Typica \quad b \quad yxas. \quad odu-mu: \quad y^2 = 4 \times 2$$

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$$2u_{1}x - 2u_{3}y + u_{1}x + u_{5} = 0 \qquad y>121 \qquad u_{-2}, \quad b = 0, \quad c=-2 \quad ype \quad uerepoacureesae \quad 4 - 2x + 3, \quad y = 2x - 3 \qquad ype \quad uerepoacureesae \quad 4 - 2x + 3, \quad y = 2x - 3 \qquad ype \quad uerepoacureesae \quad 4 - 2x + 3, \quad y = 2x - 3 \qquad ype \quad uerepoacureesae \quad 4 - 2x + 3, \quad y = 2x - 3 \qquad ype \quad uerepoacureesae \quad 4 - 2x + 3, \quad y = 2x - 3 \qquad ype \quad uerepoacureesae \quad 4 - 2x + 3, \quad y = 2x - 3 \qquad ype \quad uerepoacureesae \quad 4 - 2x + 3, \quad y = 2x - 3 \qquad ype \quad uerepoacureesae \quad 4 - 2x + 3, \quad y = 2x - 3 \qquad ype \quad uerepoacureesae \quad 4 - 2x + 3, \quad y = 2x - 3 \qquad ype \quad uerepoacureesae \quad 4 - 2x + 3, \quad y = 2x - 3 \qquad ype \quad uerepoacureesae \quad 4 - 2x + 3, \quad y = 2x - 3 \qquad ype \quad uerepoacureesae \quad 4 - 2x + 3, \quad y = 2x - 3 \qquad ype \quad uerepoacureesae \quad 4 - 2x + 3, \quad y = 2x - 3 \qquad ype \quad uerepoacureesae \quad 4 - 2x + 3, \quad y = 2x - 3 \qquad ype \quad uerepoacureesae \quad 4 - 2x + 3, \quad y = 2x - 3 \qquad ype \quad uerepoacureesae \quad 4 - 2x + 3, \quad y = 2x - 3 \qquad ype \quad uerepoacureesae \quad 4 - 2x + 3, \quad y = 2x - 3 \qquad ype \quad uerepoacureesae \quad 4 - 2x + 3, \quad y = 2x - 3 \qquad ype \quad uerepoacureesae \quad 4 - 2x + 3, \quad y = 2x - 3 \qquad ype \quad uerepoacureesae \quad 4 - 2x + 3, \quad y = 2x - 3 \qquad ype \quad uerepoacureesae \quad 4 - 2x + 3, \quad y = 2x - 3 \qquad ype \quad uerepoacureesae \quad 4 - 2x + 3, \quad y = 2x - 3, \quad y$$

$$\begin{aligned}
\mathcal{U} &= e^{-\frac{N}{4}} \cdot F(x) + g(y) \\
\mathcal{U}|_{y=x} &= 1 & |_{y=0} |_{y=0} |_{y=0} |_{y=0} = 1 \\
\mathcal{U}|_{y=-x} &= (x+1)e^{x} |_{x=0} |_{x=0} |_{y=0} = 1 \\
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$$\begin{aligned} &\mathcal{U} = \mathcal{U}_{xy} + \frac{\mathcal{U}_{x}}{y} - \frac{\mathcal{U}_{y}}{z} - \frac{\mathcal{U}_{y}}{z} \\ &\mathcal{E}_{y} = \mathcal{V}_{xy} - \left(\frac{2}{y}\right)_{x} + \left(\frac{\mathcal{V}_{x}}{z}\right)_{y} - \frac{\mathcal{V}_{xy}}{z} = \mathcal{V}_{xy} - \frac{\mathcal{V}_{x}}{y} + \frac{\mathcal{V}_{y}}{z} - \frac{\mathcal{V}_{xy}}{z} \\ &\mathcal{E}_{xy} \quad \mathcal{E}_{xy} \quad \mathcal{E}_{xy} \quad \mathcal{E}_{xy} \quad \mathcal{E}_{xy} = \mathcal{E}_{xy} \\ &\mathcal{E}_{xy} \quad \mathcal{E}_{xy} \\ &\mathcal{E}_{xy} \quad \mathcal{E}_{xy} \quad \mathcal{E}_{x$$

$$R(x_0, y, x_0, y_0) = \frac{y_0}{y}; R(x, y_0, x_0, y_0) = \frac{x_0}{x_0}$$

$$R(x,y,x_0,y_0) = \frac{xy_0}{x_0y}$$