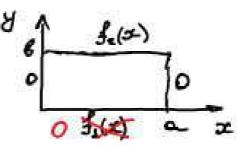
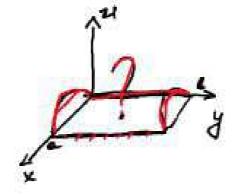
Гешение уравнения Легпаса в премоугольной област

$$\Delta u = 0$$

 $\pi (x, y)$
 $0 < x < 0$
 $0 < y < 0$
 $u_{x}(x, 0) = \frac{1}{3}(x)$
 $u_{x}(0, y) = 0$
 $u_{x}(x, 0) = \frac{1}{3}(x)$
 $u_{x}(x, 0) = \frac{1}{3}(x)$
 $u_{x}(x, 0) = \frac{1}{3}(x)$





$$\frac{\chi''}{\chi} = -\frac{\gamma'}{\gamma} = C$$

$$\frac{\chi''}{\chi} = C\chi$$

$$\frac{\chi''}{\chi} = C\chi$$

$$\chi'' = C\chi$$

$$\chi'' = C\chi$$

$$\chi(x) \gamma(x) = f_{1}(x)$$

$$\chi(x) \gamma(x) = 0 \Rightarrow \chi(x) = 0$$

$$\chi(x) \gamma(x) = 0 \Rightarrow \chi(x) = 0$$

$$\chi(x) \gamma(x) = 0 \Rightarrow \chi(x) = 0$$

$$\chi'' = C\chi$$

$$\chi'(x) = 0 \Rightarrow \chi(x) = 0$$

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$$\chi'' = \chi'' = \chi'' = 0$$

$$\chi'' =$$

$$u(x,y) = \sum_{n=1}^{\infty} X_n Y_n = \sum_{n=1}^{\infty} \sin \lambda_n \alpha \left(A_n e^{-\lambda_n y} + B_n e^{\lambda_n y} \right)$$

$$u(\alpha,0)=f_1(\alpha)$$

$$u(\alpha,6)=f_2(\alpha)$$

$$u(x,6) = \sum_{n=1}^{\infty} \sin \lambda_n x \left(\sqrt{\ln e^{-\lambda_n b}} + b_n e^{\lambda_n b} \right) = \int_{2}^{\infty} (x)$$

$$\frac{a}{2} \left(\sqrt{d_n} + b_n x \right) = \int_{2}^{\infty} \int_{2}^{\infty} (x) \sin \lambda_n x \, dx$$

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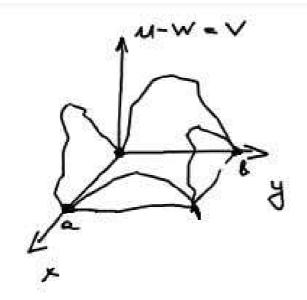
$$\frac{a}{2} \left(\sqrt{d_n} + b_n x \right) = \int_{2}^{\infty} \int_{2}^{\infty} (x) \, dx$$

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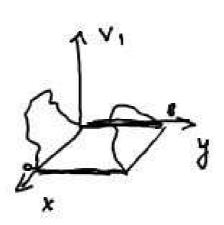
$$\frac{a}{2} \left(\sqrt{d_n} + b_n x \right) = \int_{2}^{\infty} \int_{2}^{\infty} (x) \, dx$$

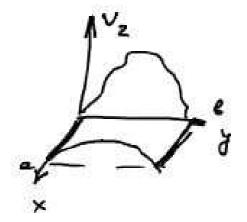
$$\frac{a}{2} \left(\sqrt{d_n} + b_n$$

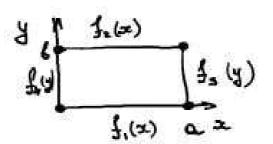
2 = V +(W)



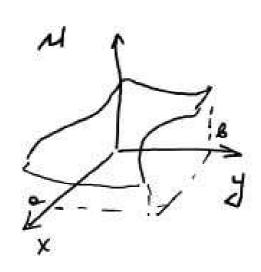
V=V1+V2 ΔY=Q ΔV2=0

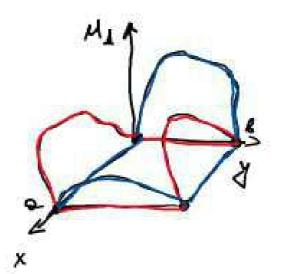






$$u_{1}(x,0) + J_{x} + D = f_{1}(x)$$
 $u_{1}(a,y) + J_{a} + B_{y} + Ca_{y} + D = f_{3}(y)$
 $u_{1}(a,y) + J_{x} + B_{b} + Cb_{x} + D = f_{2}(x)$
 $u_{1}(x,b) + J_{x} + B_{b} + Cb_{x} + D = f_{2}(x)$
 $u_{1}(a,y) + B_{y} + D = f_{4}(y)$





0 < X < Q

112 (a,y)=0

0<2<0

04 246

45 (0,y) + By + 8 = f. (y)

3 adoru gru Uz u Uz pemears ymeen Ornsen: U= Uz+ Uz+ Ax+ By+ Cxy+D