*Зад.*1

$$\frac{\partial^2 u}{\partial x^2}+\frac{\partial^2 u}{\partial y^2}=D$$

$$\begin{vmatrix} x\in(0,a) \\ y\in(0,b) \end{vmatrix}$$

$$\begin{vmatrix} -\partial_y u(x,0)=\partial_y u(x,b)=0 \\ u(0,y)=\cos\frac{\pi y}{b} \\ \partial_x u(a,y)=0 \end{vmatrix}$$

a.)$D=0$

b.)$D=2$

*Зад.*2

$$\frac{\partial^2 u}{\partial x^2}-\frac{\partial u}{\partial t}=-D$$

$$\begin{vmatrix} x\in(0,\pi) \\ t\in[0,+\infty) \end{vmatrix}$$

$$\begin{vmatrix} -\partial_x u(0,t)=\partial_x u(\pi,t)=0 \\ u(x,0)=2t3\cos 2x \end{vmatrix}$$

a.)$D=1$

b.)$D=\cos x$