$$\frac{\partial^2 u}{\partial x^2}+\frac{\partial^2 u}{\partial y^2}=0,\ 0<x<\pi,\ 0<y<1$$

$$\frac{\partial u}{\partial x}(0,y)=\frac{\partial u}{\partial x}(\pi,y)=0,\ 0\le y\le 1$$

$$u(x,0)=4\cos 6x+\cos 7x,\ 0\le x\le \pi$$

$$u(x,1)=0,\ 0\le x\le \pi$$