

Conclusions

(Hadamard's example.)

I.C's:

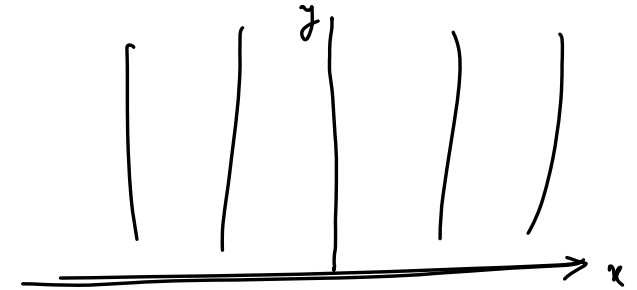
$$u_{xx} + u_{yy} = 0, \quad x \in \mathbb{R}, \quad y > 0$$

$$u(x, 0) = 0$$

$$u_y(x, 0) = \frac{\sin n\pi}{n}$$

Soln:

$$u(x, y) = \frac{1}{n^2} \sin(n\pi x) \sinh(n\pi y)$$



$$u_{xx} + u_{yy} = 0, \quad x \in \mathbb{R}, \quad y > 0$$

$$u(x, 0) = 0$$

$$u_y(x, 0) = 0$$

Res:

$$u(x, y) \equiv 0$$