

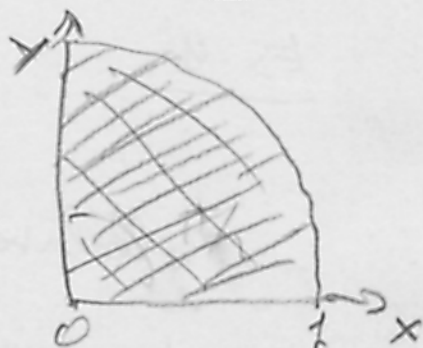
(*) Si consideri l'eq. $\Delta U = 0$

ES-6

nella "specchio" in

figura

$$\{(x, y) \text{ tale che } 0 \leq \theta < \pi/2 \text{ e } r \leq 1\}$$



ove $x = r \cos \theta$, $y = r \sin \theta$

- cond. al bordo

$$U(r=1, \theta) = (\sin 2\theta)^2 - \frac{1}{8} \sin 2\theta$$

$$U(r, \theta=0) = U(r, \theta=\pi/2) = 0$$

trovare $U(r, \theta)$ per $r < 1$

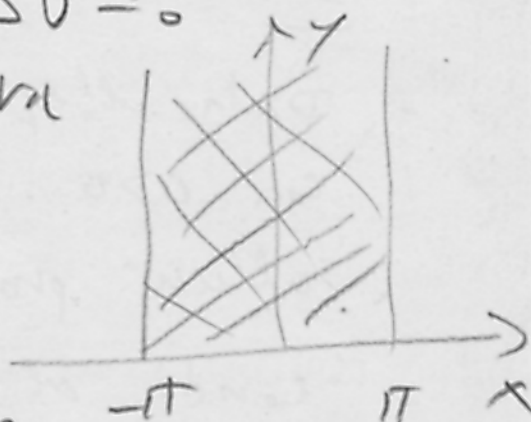
(*) Si consideri l'eq. $\Delta U = 0$

nel dominio in figura

con cond. al bordo

$$U(x=\pi, y) = U(x=-\pi, y) = 0$$

$$U(x, y=0) = (\sin x)^3 + \frac{1}{3} \sin 3x$$



trovare $U(x, y)$ nel dominio.