

ERRATA EXAMEN DE ANÁLISIS DE FOURIER

1. p.215 - Problema 4 Parte (a) y (b) Dice

$$\begin{aligned}\Delta_x Mh(x, r) &= \left[\partial_r^2 + \frac{d-1}{r} \right] Mh(x, r) \\ \left[\partial_r^2 + \frac{d-1}{r} \right] Mu(x, r, t) &= \partial_r^2 Mu(x, r, t)\end{aligned}$$

debe decir

$$\begin{aligned}\Delta_x Mh(x, r) &= \left[\partial_r^2 + \frac{d-1}{r} \partial_r \right] Mh(x, r) \\ \left[\partial_r^2 + \frac{d-1}{r} \partial_r \right] Mu(x, r, t) &= \partial_r^2 Mu(x, r, t)\end{aligned}$$

2. p.217 - Problema 7 Parte (d). Dice

$$\begin{aligned}(-\Delta)^{1/2} f(x) &= \lim_{y \rightarrow 0} \frac{\partial u}{\partial y}(x, y) \\ (-\Delta)^{k/2} f(x) &= \lim_{y \rightarrow 0} \frac{\partial^k u}{\partial y^k}(x, y)\end{aligned}$$

Debe decir:

$$\begin{aligned}(-\Delta)^{1/2} f(x) &= - \lim_{y \rightarrow 0} \frac{\partial u}{\partial y}(x, y) \\ (-\Delta)^{k/2} f(x) &= (-1)^k \lim_{y \rightarrow 0} \frac{\partial^k u}{\partial y^k}(x, y)\end{aligned}$$

3. p.278 - Ejercicio 14 Dice

$$E(\theta) = \frac{1}{2} \log \left(\frac{1}{2 - 2 \cos \theta} \right) + \frac{i}{2} F(\theta)$$

Debe decir

$$E(\theta) = \frac{1}{2} \log \left(\frac{1}{2 - 2 \cos \theta} \right) + \frac{1}{2} F(\theta)$$