Problem 4 (due Monday, March 25)

A function \$f:\mathbb R^2\longrightarrow \mathbb R\$ has the following properties:

- a) the partial derivatives  $\displaystyle f_{\beta \ R^2}\$  and  $\displaystyle f_{\beta \ R^2}\$
- $\downarrow$  c) f(x,0)=0 for all  $x\in \mathbb{R}$ .

Prove that f(x,y)=0 for all  $(x,y)\in R^2$ .

We received only one (partial) solution, from Beatrice Antoinette. For a complete solution see the following link Solution.

From:

http://www2.math.binghamton.edu/-Department of Mathematics and Statistics, Binghamton University

Permanent link:

http://www2.math.binghamton.edu/p/pow/problem4s24

Last update: 2024/03/28 05:27