

Problem 2 (due Monday, February 20)

Find all positive integers n which have the following property: there is a continuous function $f: \mathbb{R} \rightarrow \mathbb{R}$ such that for every real number t the equation $f(x) = t$ has either no solutions or exactly n different solutions.

We have not received any solutions. The positive integers in question are exactly all odd natural numbers. For a detailed solution see the following link [Solution](#).

From:

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Permanent link:

<http://www2.math.binghamton.edu/p/pow/problem2s23>

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