

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:

<https://www2.math.binghamton.edu/> - **Department of Mathematics and Statistics, Binghamton University**

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