Problem 2 (due Monday, February 20)

Find all positive integers n which have the following property: there is a continuous function $f:\mathbb R\longrightarrow \mathbb R$ 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.