

Problem 1 (due Monday, Feb. 17)

a) Is there a one-to one and onto function  $f: (0,1) \rightarrow (0,1)$  such that  $f' = f^{-1}$ , i.e. the derivative of  $f$  equals the inverse of  $f$ ?

b) Is there a one-to one and onto function  $f: (0,\infty) \rightarrow (0,\infty)$  such that  $f' = f^{-1}$ , i.e. the derivative of  $f$  equals the inverse of  $f$ ?

This problem was solved by only one participant: Yuqiao Huang. The submitted solution has been essentially the same as our "in-house" solution. To see the solution and some related open questions click the following link [Solution](#)

From:

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

Permanent link:

<https://www2.math.binghamton.edu/p/pow/problem1>

Last update: **2020/02/18 21:10**

