



Lewis & Clark College

Department of Mathematical Sciences

Problem of the Week #3

(Spring 2012)

Suppose $f(x)$ is an infinitely differentiable function on $(0, 1)$ and continuous on $[0, 1]$ and satisfies $f(0) = f(1) = 0$. Prove there is an x in $(0, 1)$ such that $f(x) = f'(x)$.

- Solvers should include their name, address, and status at the College. Solutions can be mailed to MSC 110 via campus mail or placed in Yung-Pin Chen's mailbox in the Math Department Office. Solutions to the above *Problem of the Week* should be received by 5:00 p.m. Monday, February 13, 2012.
- Kathleen Daly (jr., overseas in Japan) and Colin Gavin (fr.) solved *Problem of the Week #2*. Congratulations to them.