Lewis & Clark College

Department of Mathematical Sciences

Problem of the Week #10 (Spring 2018)

Suppose $P(x)$ is a real polynomial of degree $k \geq 1$. Show that the power series expansion for $f(x) = e^{P(x)}$ about any point x_0 cannot have k consecutive zero coefficients.

- 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, April 9, 2018.
- Arthur Drobot (fr.) and Christopher Karagiannis (so.) solved *Problem of the Week* #9. Congratulations to them.