Problem 3 (due Monday, March 11)
Let \$p(x)=cx^n+c\_1x^{n-1}+\ldots\$ be a polynomial of degree \$n\$ with real coefficients and
the leading coefficient \$c\neq 0\$. Prove that at least one of the numbers \$|p(0)|, |p(1)|, \ldots,
|p(n)|\$ is greater or equal than \$\displaystyle \frac{|c|n!}{2^n}\$. Prove furthermore that this
bound is best possible.

We received a solution form Mithun Padinhare Veettil. For a complete solution see the following link Solution.

From: http://www2.math.binghamton.edu/ - Binghamton University Department of Mathematics and Statistics

Permanent link: http://www2.math.binghamton.edu/p/pow/problem3s24

Last update: 2024/03/12 04:27

