Real Roots

Let C denotes the set of complex numbers and let $f : C \to C$ be a function defined as $f(x) = (x-i)^{10} + (x+i)^{10}$. Show that f has a real zero.

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- Please **Submit** your solution to
  - *Dr. Erol Akbas,* eakbas@gsu.edu or
  - *Dr. Tirtha Timsina,* ttimsina@gsu.edu

  before the deadline: **Friday, September 30th, 7:00PM.**

- The WINNER will be awarded with a $25 gift certificate and will be announced in the NEXT issue.

- You may get a hard copy of this problem from the Problem of the Month box in the Department of Mathematics and Statistics, 7th floor, COE (College of Education).