

Real Roots

Let C denote the set of complex numbers and let $f : C \rightarrow C$ 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).