Friday, October 12, 2012

Prove that for any natural number \( n > 2 \), the following inequality holds true

\[
\frac{n+1}{\sqrt{n} + 1} < \sqrt{n}.
\]

Join the competition!
The Department of Applied Mathematics and IIT SIAM Student Chapter is organizing a weekly campus-wide math competition for undergraduate students.

▷ Every Friday 3pm, visit http://math.iit.edu/~weeklyproblem to view the problem of the week
▷ Submit the solution to weeklyproblem@math.iit.edu by Wednesday 5pm
▷ The author(s) of the first correct solution(s) will receive a monetary prize

For more details view the official web site http://math.iit.edu/~weeklyproblem.
Become a Math Club member and receive the problem by email.

Good Luck! Have fun and enjoy Mathematics!