

Math Weekly Problem Competition

Friday, February 27, 2015

Let

$$a_n = \frac{1^{\frac{7}{2}} + 2^{\frac{7}{2}} + \cdots + n^{\frac{7}{2}}}{n^{\frac{9}{2}}}.$$

Show that $\lim_{n \rightarrow \infty} a_n$ exists and find its value.

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 problem notifications by email.

Good Luck! Have fun and enjoy Mathematics!