Friday, February 27, 2015

Let

\[ a_n = \frac{1^7 + 2^7 + \cdots + n^7}{n^2}. \]

Show that \( \lim_{n \to \infty} a_n \) 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!