

MATH PROBLEM OF THE WEEK

Problem 7

Prove that for some integer k > 1, 3^k ends with 0001 (in its decimal representation).

We welcome solutions from everyone. The undergraduate participant from the NMSU main campus with the most correct solutions at the end of the semester will receive an award of \$500.

Solutions must be mathematically rigorous and originally obtained by the participants.

Participants will be notified if their solutions are correct within a week.

Deadline: Monday, November 20, 10 amNext problem will be posted on November 20

Send solutions to: mathpotw@nmsu.edu

More information at: https://math.nmsu.edu/activities/math-problem-of-the-week.html