



MATH PROBLEM OF THE WEEK

Spring 2023

Problem 5

What is the last digit of the number $2^{2023} + 7^{2023} + 8^{2023}$?
Justify your answer.

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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, April 3, 10 am

Next problem will be posted on April 3

Send solutions to: mathpotw@nmsu.edu

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