



MATH PROBLEM OF THE WEEK

Fall 2024

Problem 2

Suppose that the points $(1, 1, 4)$ and $(2, 5, 0)$ are two of the vertices of a cube. What are the possible volumes of the cube?

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, October 7, 10 am

Next problem will be posted on October 7

Send solutions to: mathpotw@nmsu.edu
More information at: <https://math.nmsu.edu/activities/math-problem-of-the-week.html>