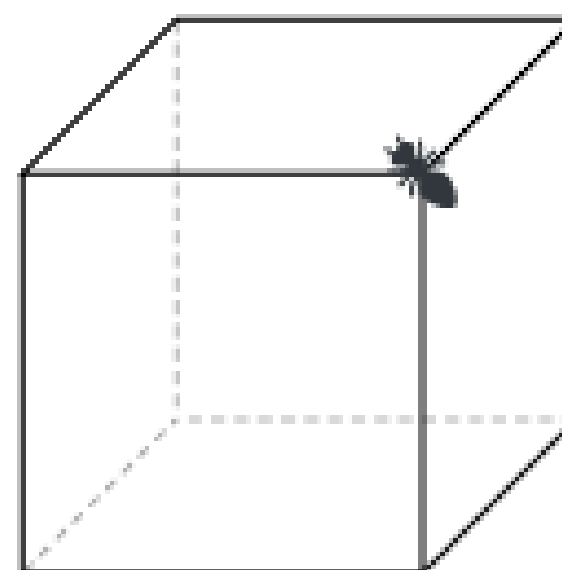# MATH PROBLEM OF THE WEEK

Spring 2025

Problem 2

An ant begins at one corner of a cube and walks along the edges of the cube without backtracking or returning to any corner it has previously visited. In how many ways can it travel to the opposite corner?

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, February 24, 10 am
Next problem will be posted on February 24