



MATH PROBLEM OF THE WEEK

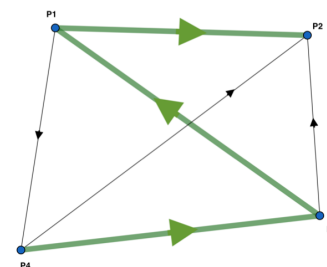
Spring 2021

Problem 4

Let p_1, \dots, p_n be a set of $n \geq 2$ points. Suppose that for any pair of points p_i and p_j for $1 \leq i < j \leq n$ there is an arrow from p_i to p_j ($p_i \rightarrow p_j$), or from p_j to p_i ($p_j \rightarrow p_i$). Prove that there is a path

$$p_{i_1} \rightarrow p_{i_2} \rightarrow \dots \rightarrow p_{i_n}$$

that includes all of the points.



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.

Deadline: Monday, April 26, 10 am

Send solutions to: mathpotw@nmsu.edu

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