



MATH PROBLEM OF THE WEEK

Fall 2021

Problem 5

The points in the Cartesian plane are colored with one of the colors yellow, blue, or red. Every point can only be colored by one color. Prove that there are two points in the plane of the same color that are distance 1 from each other.

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, October 25, 10 am

Send solutions to: mathpotw@nmsu.edu

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