

MATH PROBLEM OF THE WEEK

Fall 2022

Problem 2

Dexter wants to plot 10 points on a square paper of dimension $3\text{cm} \times 3\text{cm}$ such that distance between any two points is strictly greater than $\sqrt{2}\text{cm} \approx 1.41421\text{cm}$. If possible, how? If not, why? Prove your answer.

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 10, 10 am

Next problem will be posted on October 10